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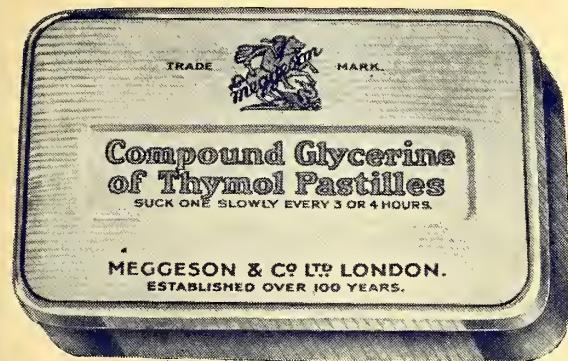
PUBLISHED WEEKLY AT 28 ESSEX ST., STRAND, LONDON, W.C.2

SUBSCRIPTION (WITH  
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SINGLE COPIES 9d.

No. 2693.

SEPTEMBER 19, 1931.

Vol. CXV.



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(All kinds)

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4 oz. tins 10/6 per doz.

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An entirely dependable product for use in obstetric and general practice.

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*This coupon will bring you the latest Pepsodent window display*

T.13

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The ingredients are the finest procurable.  
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Special terms are available for pharma-  
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Send to 50 Beak Street, London, W.I.,  
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M.R.P. .... 1/0 per box of 36.

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# BRONCHIAL LOZENGES

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THE

EXCEPTIONAL

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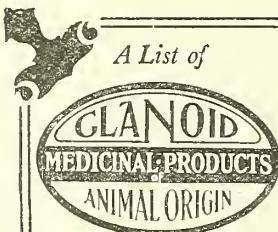
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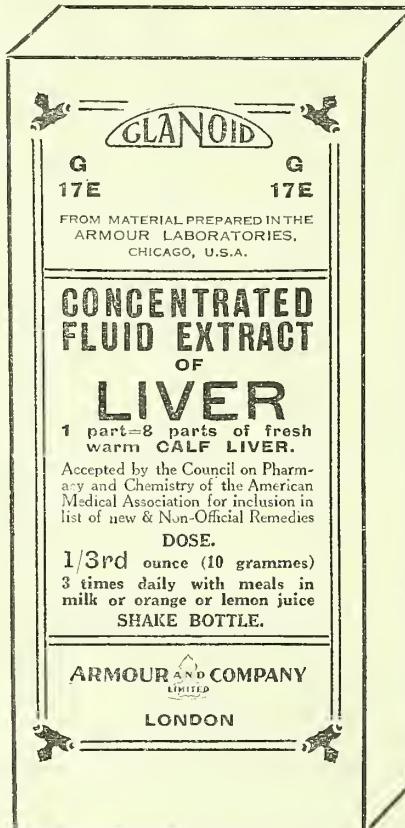
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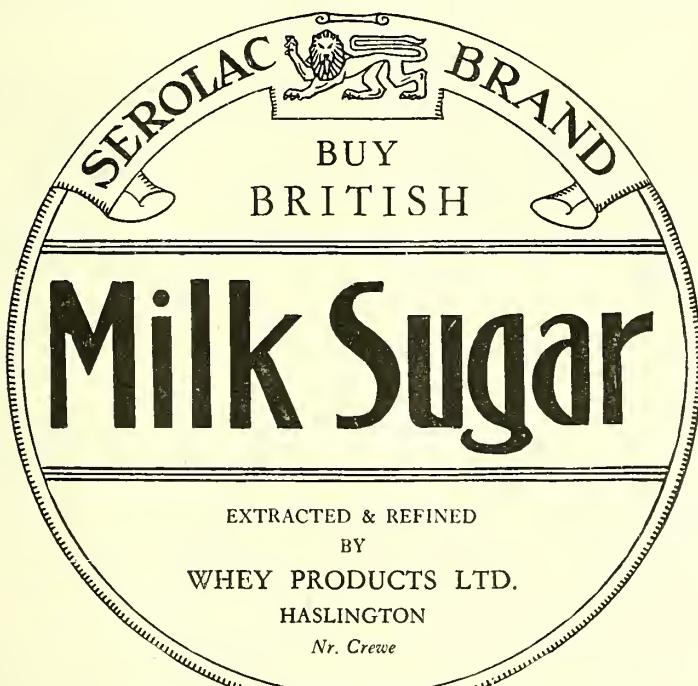
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# A NEW PREPARATION

A high-grade powdered medicinal glucose (98%) with Ostelin vitamin D, and an assimilable compound of calcium and phosphorus.

For use in all cases where glucose is indicated. May be given freely to children and adults.

The low fat diets necessary in acidosis are deficient in vitamin D and generally in calcium. Their presence in this product, besides giving valuable tonic properties, compensates for the deficiency.

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### OSTELIN WITH

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**'BOVAL'**  
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1/6 size .. ..	12/- doz.
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*So said a very large number of Pharmacists who  
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Here's to an unusually successful season for you.

The increased Advertising with its strong appeal based on the 'PERFUME-CURE' for Colds and Catarrh, etc., will send more new customers up to your counter and create for you many more profitable sales



**The first announcement will appear in November, and the whole series will be issued weekly throughout the season up to and including April 1932**

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## Three facts you should read about this Great New Seller

- 1 Although a comparatively new line, "VIGGORMALT" — Concentrated Pure Extract of Malt and Hops only — for the making of home-brewed Beer—is establishing itself with amazing rapidity.
- 2 The quality of "OAMBROO" BEER made with VIGGORMALT is beyond all comparison superior to that obtainable from any preparation of a similar kind. Repeat orders are assured and regularly increasing demand follows.
- 3 VIGGORMALT is being consistently advertised in publications of National appeal, with gratifying results. The advertising is to be extended.

*In the interests of increased turnover send the Coupon below NOW!*

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Name.....

Address.....

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**Arcolax**



A natural Vegetable product for the treatment of Habitual Constipation.

We are providing the Medical profession with samples and full information.

Be ready to supply.

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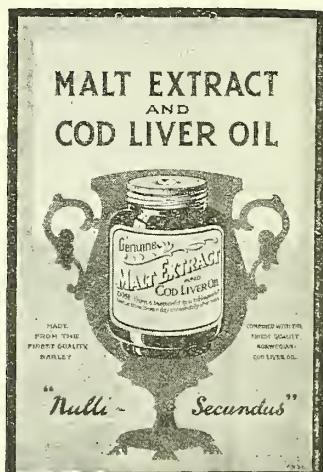
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LIVER  
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TAKE ONLY WHAT YOU REQUIRE BUT SECURE FULL DISCOUNT AT END OF THE SEASON ON QUANTITY TAKEN

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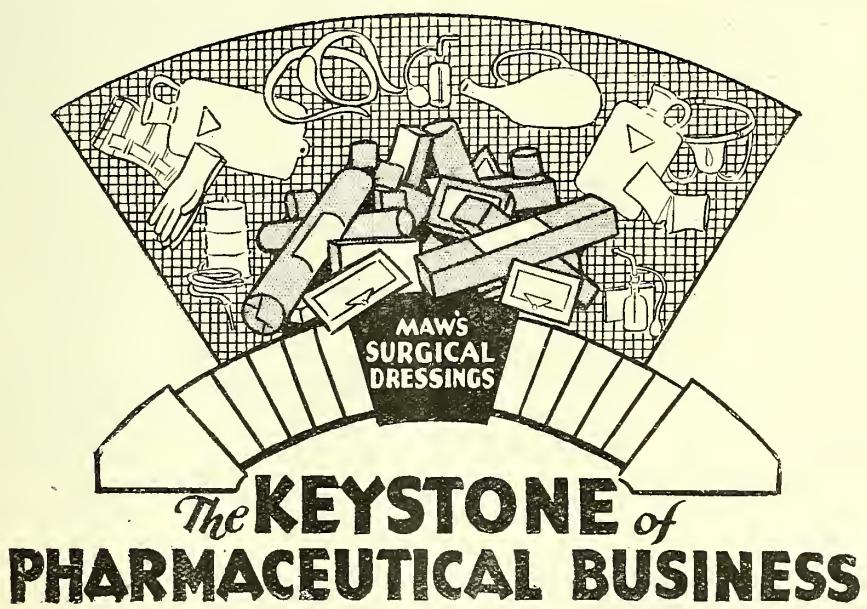
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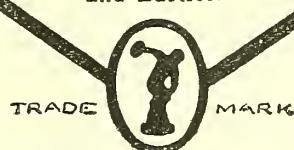
responsible for the care of the sick-room.

These people are definitely influenced by the appearance and quality of the Dressings you supply and by the name of the manufacturer. They know that the name of "Maw" on Dressings is sufficient guarantee of quality, and they know that the chemist who sells Maw's Dressings may be relied upon to supply dependable medical and surgical goods of all kinds.

Therefore, when you sell Maw's Dressings consistently, you not only increase your Dressings business, you also increase your general goodwill and your sales of all medical and surgical goods.

*Stock, Display and Push Maw's Dressings.*

S. Maw, Son & Sons, Ltd.,  
Aldersgate St., London,  
and Barnet.



# THE ECONOMY CABINET —PRODUCES RESULTS !

To-day you must feature economy lines. Your customers can make Stockings, Garments and Hats like new at home with WINNER Home and Stocking Dyes, LUTON Hat Dyes, AURORAL Cold Water Dyes and VELT.



## Feature WINNER Home Dyes on your counter.

24/- per gross. Carriage paid. Retail 3d. each.

MADE BY

# **Whitaker & Co. (Kendal) Ltd.**



**METROPOLITAN-VICKERS ELECTRICAL CO., LTD.**  
Trafford Park, MANCHESTER.



## Good Boxes swell sales

Here are a few, for example. They please the eye, preserve their contents, and cost little. They are of pure—

With acknowledgments to the John Dale Manufacturing Co.

Write for data on aluminium containers

**Aluminium**  
THE BRITISH ALUMINIUM CO., LTD.  
ALUMINIUM PRODUCERS. ADELAIDE HOUSE,  
KING WILLIAM STREET, LONDON, E.C.4.  
Telephone: Mansion House 5561 and 8074.  
Telegrams: Cryolite, Bilgate, London.

# IONONE 100%

White, Tomkins & Courage Ltd.

# REIGATE

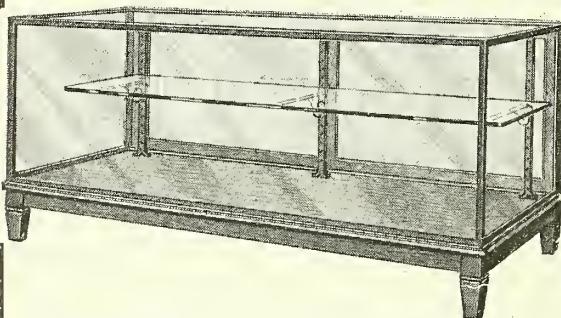


**Soap, Perfumery, Pharmaceutical  
Products, etc., are well protected,  
yet visible and attractive  
when wrapped in  
"CELLOPHANE."**



**The Cellophane Company, Ltd., 6-9 Bird Street, London, W.I**  
Cellophane is the registered trade mark of the Cellophane Co., Ltd., to designate its sheets and films of regenerated cellulose.

### GLASS COUNTERS BRING MORE TRADE



**No. CD/SF 2920.** A soundly constructed Display and Serving Counter made in our own works at Holloway Road—6 ft. x 3 ft. x 2 ft. oak or mahogany framing, glazed new  $\frac{1}{4}$ " drawn plate glass top, front, and ends. Clear glass sliding doors at back. Interior fitted 1 row of shelves 12" wide, brown bronze bars and brackets.

DEFERRED TERMS.  
An initial payment of 18/10 secures this counter, and 11 further equal monthly payments of the same amount make it your own complete property.

**£10-15-0**  
Cash Price. Ex. Works.

Send for our New List No. C.D.1260.

**DUDLEY & COMPANY LIMITED**  
451 HOLLOWAY ROAD, LONDON, N.7  
City Showrooms: 65-66 FORE STREET, E.C.

ADMINISTRATIVE COUNTY OF LONDON.  
**Norwood Technical Institute**  
Knight's Hill, West Norwood, S.E.27

PRINCIPAL: LEWIS N. COOMBS, B.Sc., A.I.C.  
Head of Chemistry and Physics: W. GERRARD, M.Sc.  
Head of Botany: E. R. SPRATT, D.Sc., F.L.S., F.I.H.,  
A.R.C.

DAY AND EVENING CLASSES are held at the above-named Institute in preparation for Part I (Preliminary Scientific) of the Qualifying Examination of the Pharmaceutical Society. The laboratories are equipped for work up to an advanced stage. Intending students should enrol early. The Institute re-opens 21 SEPTEMBER, 1931.

A detailed prospectus may be obtained from the Principal.

MONTAGU H. COX,  
Clerk of the London County Council.

WESTMINSTER COLLEGE OF PHARMACY.

### WILLS' UNIVERSAL POSTAL SYSTEM

FEES (G.T. BRITAIN & N. IRELAND).

PRELIMINARY SCIENTIFIC COURSE	-	£1 10
QUALIFYING COURSE	-	£1 10
APOTHECARIES' HALL COURSE	-	£1 11 6

POSTAL COURSE PROSPECTUS POST FREE  
from The Secretary,  
190 CLAPHAM ROAD, S.W.9.

# AYRTON'S EXTRACT OF MALT AND/OR MALT WITH OIL 10% OR 15%

SEASON'S CONTRACT 1931-1932



CONTRACTING FOR SEASON'S NEEDS  
means a big saving in price and a stronger  
urge to sell, with a resulting increase in  
turnover and residual profit.

AYRTON'S maintain the high quality on which an  
enormous sale of Malt Extract preparations has been built up. Only  
the highest grade Barley is used in the malting processes, and all  
Cod Liver Oil is imported direct from Norway and guaranteed to  
be of full Vitamin content.

A very wide range of styles and alternative labels is available,  
including the "Reservable Series," and an entirely new presentation  
of the N.H.I. container.

Sample and label specimens sent to any Trading Chemist on  
request.

Ayrton's are official suppliers of NATIONAL MARK  
MALT PRODUCTS and all such may be included in  
Season's Contracts to qualify for the special discounts.

#### EXTRACT OF MALT.

8 6 per dozen  
15 0     "  
28 0     "  
48 6     "  
7 6     "  
13 6     "  
7 0     "  
12 9     "  
54 0 per cwt.

Amber Jars...     ...     ...     1 lb.  
"     "     "     2     "  
"     "     "     4     "  
"     "     "     7     "  
Lever Lidded tins     ...     1     "  
"     "     "     2     "  
Containers     ...     1     "  
Tinned tops and bottoms     2     "  
Bulk (not less than 1 cwt.)...     ...

#### EXTRACT MALT WITH OIL.

9 0 per dozen  
16 0     "  
30 0     "  
51 6     "  
8 0     "  
14 6     "  
7 6     "  
13 9     "  
60 0 per cwt.

#### TERMS :

Less than	1 gross 1 lb. or equivalent weights	...	...	Nett
1     "	"     "     "     and over	...	2 $\frac{1}{2}$ per cent. discount	"
3     "	"     "     "     "	5	"	"
9     "	"     "     "     "	7 $\frac{1}{2}$	"	"
15     "	"     "     "     "	10	"	"
30     "	"     "     "     "	12 $\frac{1}{2}$	"	"
50     "	"     "     "     "	15	"	"

The discount is credited at the expiration of the period on the nett invoice value of  
the quantities taken during the season.

AYRTON SAUNDERS & CO., LTD. - - - LIVERPOOL, ENG.

# PLAIMAR

## SANDALWOOD OIL

Official in the French Codex  
DISTILLED BY PLAIMAR LTD., PERTH, W.A.

European Agents **MAXWELL, PLAISTOWE** & Co. Limited  
22a College Hill, Cannon Street, London, E.C.4

Telephone: Central 5859.  
Telegrams and Cables: Azucena, London.  
Codes: A B C, 5th & 6th editions, and Bentley's.

Paris Address: Etbs., PLAISTOWE, 11 bis,  
Rue Volney Berlin Address: Leopold  
Laseron, Alte Jacobstrasse, 20/22

GUARANTEED  
ONLY IF THIS  
SEAL IS INTACT  
BEFORE OPENING



THE REGISTERED TRADE MARK OF  
PLAIMAR LTD IS A GUARANTEE  
OF THE PURITY OF THE CONTENTS  
OF THIS CONTAINER

LOOK FOR THIS SEAL—IT IS YOUR

GUARANTEE OF QUALITY

If its  
customers  
you want

YOU SHOULD STOCK

## PETAL DUST

"Wherein the subtle savour of the Flowers  
sublimely dwells."

### THE GREAT FLORAL AIR PURIFIER

A TRIAL WILL CONVINCE YOU THAT—

**PETAL DUST**, when once shown, creates its own demand, and is therefore a valuable adjunct to every "go-ahead" store.

**PETAL DUST**, when displayed prominently upon your counter, will attract prudent customers by the fragrance of its unique odour, which to-day is of such universal admiration.

RETAILS IN PACKETS AT 4d. AND 8d. EACH.

Attractive Advertising matter free on request.

Obtainable through all the usual Wholesale Houses or from  
Sole Producers:—

THE ROSMARINE MANUFACTURING CO.  
LONDON, S.E.1

## Calvert's CARBOLIC Tooth Powder

### NEW DISPLAY TERMS

on parcels of one gross 6d. tins or equivalent value  
(Carriage paid to any railway station in Great Britain)

F. C. Calvert & Co. Ltd., have pleasure in announcing the offer of a special display discount of 5% on orders not less than £2 14s. gross value, together with a further discount of 2½% for cash with order, or within 28 days from date of invoice on approved accounts.

This offer refers only to goods listed on pages 1 to 14 in their price list and does not apply to orders £4 gross value and upwards on which higher discounts are obtainable.

F. C. Calvert & Co. Ltd.  
Manchester.

# Pears Soap down to **6d.**

(U.K. only)

## A bigger market—bigger profits better terms!

Pears announce the squarest deal ever given to the trade! Not only is the price of Pears Original Transparent and Golden Glory soaps both reduced to 6d.—but rebate is being granted on all present stocks and full  $33\frac{1}{3}\%$  profit on all future orders—if bought on best terms.

At a single stroke, a vastly wider market is opened—sales are increased—and profits on every gross still higher! The

reductions are being strongly advertised during the next few weeks in a big national press campaign—and the demand will undoubtedly be far greater than your present stocks can supply. If you have not already received a copy of Pears letter to the trade—giving all the information you need—write for it TODAY. And be prepared for the biggest Pears sales you have ever enjoyed!

# PEARS-THE PURE SOAP

A. & F. PEARS LTD., ISLEWORTH, MIDDLESEX

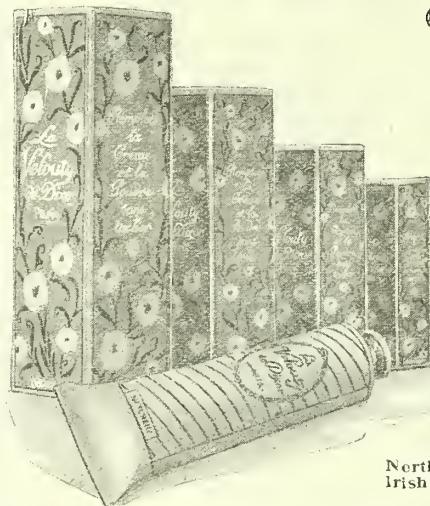
PS/40/276A

B B

the original combined Cream and Powder

# la VELOUTY

de DIXOR Paris



*The advertised line that you are asked for.*

NOW ON P.A.T.A.

Samples free upon receipt of trade card or billhead.

PRICES.—No. 1. Handbag tube 3/- doz. Retail 1/4/-  
 No. 2. Small tube 4/- " " " 6/-  
 No. 3. Medium tube 7/- " " " 1/-  
 No. 4. Large tube 14/- " " " 2/-  
 No. 5. Super tube 22/- " " " 3/-  
 Pots 21/- " " " 2/9

Made in four shades:

WHITE, IVORY, NATURAL and OCHRE.

Obtainable from your regular Wholesaler or direct from the Sole British Agents:

DEBACQ & HARROP,

68 Newman Street, Oxford Street, London, W.1.

*Sole Distributors for*

Northern Ireland: ROBERT MAYRS & CO., 43 Chichester Street, BELFAST

Irish Free State: MAY, ROBERTS & CO. LTD., Grand Canal Quay, DUBLIN

6<sup>d</sup>  
EACH

YOU REALLY MUST TRY THIS - IT'S WONDERFUL!

**Yes—advertised  
month in and  
month out—  
and it shows you  
83% PROFIT**

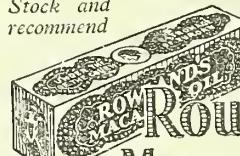
THE BUTYWAVE CO. (Dept. O.27), 10 Tachbrook St., London, S.W.1

## Selling Suggestions

Rowland's Macassar Oil keeps the hair naturally immaculate, for it controls the hair simply by making it soft and flexible.

Stock and  
recommend

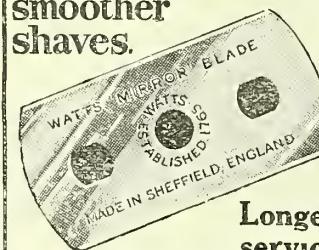
Of all Wholesalers,  
to retail at 3/6,  
7/- and 10/6.



**Rowland's  
Macassar Oil**

J. H. & Co.  
A. ROWLAND & SONS, Ltd., 22 Laystall St.,  
Rosebery Avenue, London, E.C.1

**Keener edges  
smoother  
shaves.**



**The New Watts  
"Mirror" Blades**

These wonderful Blades with their Rustless Reinforced Edges of Stainless Steel treated by a secret process are worth the extra cost. They are keener and give more and better shaves than any others on the market. The Edges are absolutely rustless in any climate.

**Watts Mirror Blades**  
Packed in Patent Spring Lid  
Nickelled Containers of

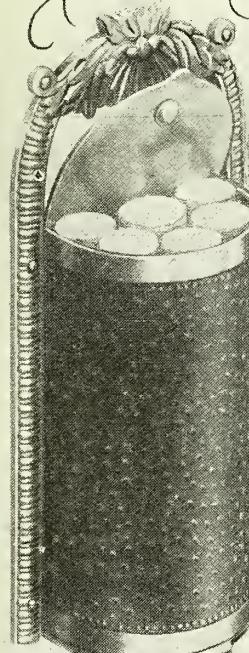
10 for 3/4

Also Packed in cartons of  
5 for 1/8  
Giving the Retailer 66 2/3 %  
PROFIT on cost.

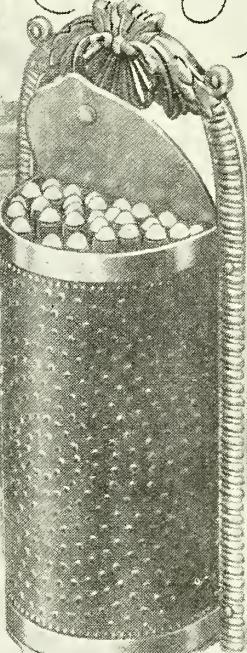
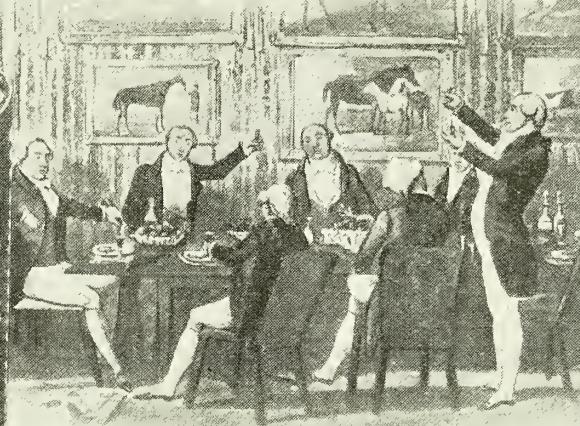
**Longer  
service**

JOHN WATTS (Sheffield & London) Limited  
Lambert Works, SHEFFIELD.  
Established over 150 years.  
London: 18 Soho Square, W.1

# The GEORGIAN SPICE BOX



AS A LAVENDER DIFFUSER



AS A MATCH-BOX

REPRODUCED BY  
**DUBARRY**

as a combined

## **LAVENDER DIFFUSER** & **MATCH BOX**

A CHARMING AND  
UNIQUE GIFT  
WHICH APPEALS  
TO ALL LOVERS OF  
THE ANTIQUE

A DELIGHTFUL  
NOVELTY FOR USE  
WHEN THE  
CIGARETTES ARE  
HANDED ROUND

SPICE BOXES WERE  
USED BY MEN  
OF FASHION  
IN THE REIGN  
OF GEORGE I



SUPPLIED IN PRESENTATION CASE  
COMPLETE WITH  
ESSENCE OF LAVENDER, ETC.  
PRICE 7/6

**DUBARRY** 81 BROMPTON ROAD, LONDON.

# THE "MUL-KOH" EYE-BLACK

## AN EYE OPENER FOR VALUE

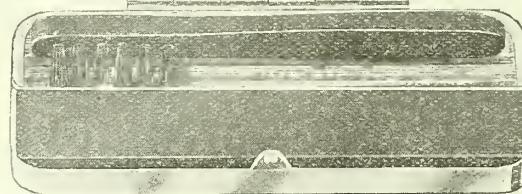
PRICE:

**12/9** per dozen

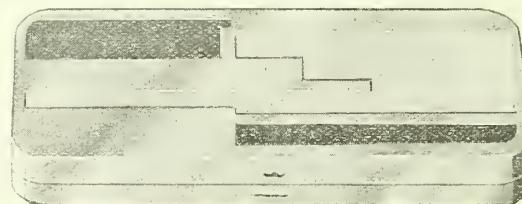
This Eye-Black is harmless; remains soft; does not powder; and compared with others, it is more adhesive and produces a more brilliant black; in finely finished box with inset mirror and brush. In attractive cartons and display outers.



REFILLS:

**3/9** per dozen

Has the artistic  
enamelled design of  
the "Mul-Koh"  
Powder Sifter.



In two shades:  
**BLACK or BROWN**

CAN BE BOUGHT  
FROM  
WHOLESALE HOUSES

**THE IMPEX CO., 60-61 CHISWELL STREET, LONDON, E.C.I**

TELEPHONE: METROPOLITAN 3050

# mysore government SANDALWOOD OIL

DISTILLED FROM SANTALUM ALBUM, LINN.

*This Mark is the*

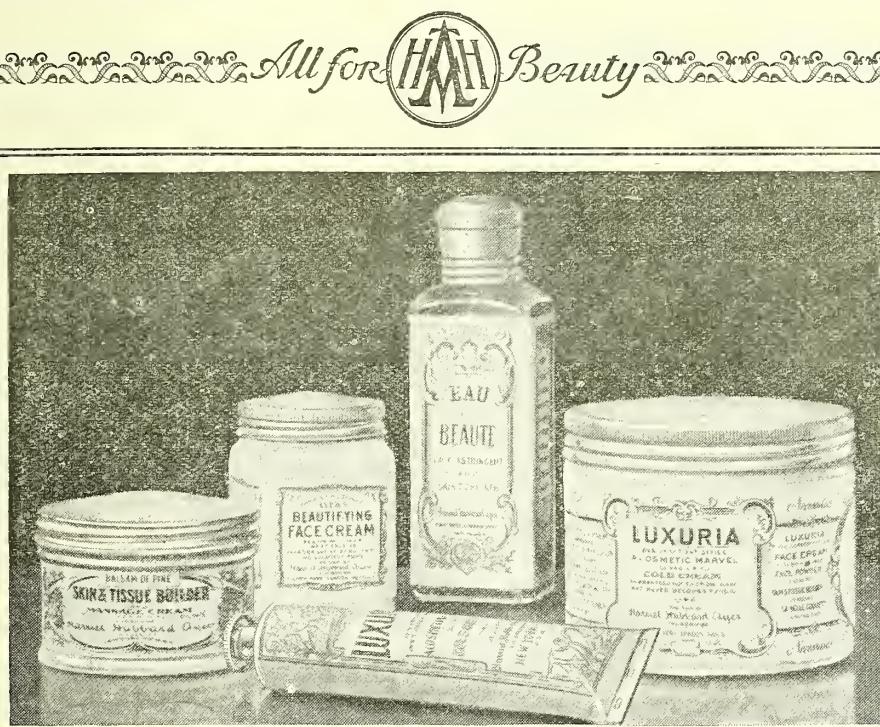


*GUARANTEE*

**Trade Commissioner for Mysore in London  
Grand Buildings, Trafalgar Square, LONDON, W.C.2**

Telephone: Gerrard 4412.

*Sole Agents for America: Messrs. W. J. BUSH & Co. Inc., 370 Seventh Avenue, New York.  
Sole Agents for Canada: Messrs. W. J. BUSH & Co. (Canada), Ltd., 432 St. Helen St., Montreal.*



## *A cordial invitation to share our great success!*

It says much for Harriet Hubbard Ayer Beauty Preparations that they have only taken three years to win the favour of an ever-growing number of discriminating British women—to be stocked by nearly every important retailer in the country.

The amazing popularity of Harriet Hubbard Ayer is based upon real satisfaction. Every woman who uses these creams and lotions—even for a very short time—sees an encouraging improvement in her looks. And she finds them economical, for each preparation fulfils more than one function—the favourite, LUXURIA, for instance, combines the virtues of a cleanser, a skin food and a bleacher.

Dignified advertising in the national press and fashion periodicals has familiarised women with the simple Harriet Hubbard Ayer home beauty treatment. It has sustained and increased demand.

Now—at this moment of our established success—you will be wise to link your business with Harriet Hubbard Ayer. We invite you cordially to join us!

Write to Harriet Hubbard Ayer Ltd., 130 Regent Street, W.1, for catalogue and terms. Or, we shall be delighted to show you round our new showrooms and give you particulars personally.

The retail prices for the famous LUXURIA Cream are 2/3, 4/-, 8/6, 11/9.

Skin & Tissue Builder 4/-, 7/6, 18/9, 30/-

Beautifying Face Cream 4/-, 7/6, 18/9, 30/-

Eau de Beauté 4/-, 8/-

# HARRIET HUBBARD AYER

*Beauty Preparations*

PARIS

LONDON

LTD.

NEW YORK



*The Brushes are made in nine models, retailing from 3/6 to 18/6, all subject to generous discounts giving you a substantial living profit. Can be supplied through your usual wholesaler.*

THE "MASON PEARSON" is the only *PERFECT* Hair-brush made and sold today; the reason being that the *only* perfect hair-brushing material—*the black unbleached bristle of the Wild Boar*—is used in its making.

There is no disputing the fact that the "MASON PEARSON" brushes much more quickly than *ANY OTHER* brush; it brushes more efficiently; it cleanses the scalp more gently and thoroughly; it improves the general attractiveness of the Hair, and keeps it at its best. *No hair-brush can do more than this.*

By selling the "MASON PEARSON" Hair-Brush you enhance your own professional reputation through its good qualities.

# MASON PEARSON HAIR-BRUSH

MASON PEARSON SELLING AGENCY LTD.

59 NEW OXFORD STREET, LONDON, W.C.1

## GELLE FRÈRES DENTIFRICE

Please Note NEW PRICES:—

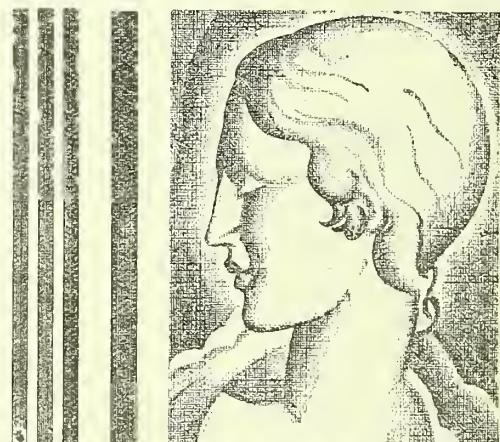
1/- Tubes, No. 3020 @ 7/-	doz.
9d. " No. 3023 @ 5/-	"
1/6 " No. 3010 @ 12/-	"
1/9 Pots, No. 3016 @ 12/6	"
1/3 " No. 3007 @ 8/6	"

Showing you an INCREASED  
MARGIN OF PROFIT

Order through your wholesaler, or  
direct from—

**J. DUPONT & CIE**  
18 FORE STREET, LONDON, E.C.2

*Sole Agents for the United Kingdom*



**BETTER BE SAFE  
THAN SORRY . . .**

**CUSTOMER-SATISFACTION  
IS STILL THE BEST POLICY**

Protect your trade by protecting  
the customer. Sell Nuctone ex-  
clusively for recolouring of hair.

*Order from your usual Wholesaler*

**Nuctone**  
**SAFE FOR GREY HAIR**



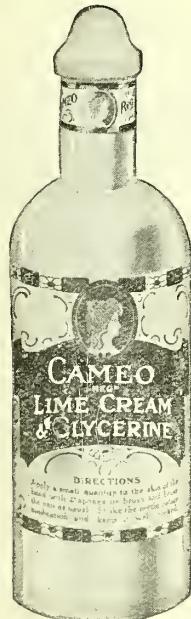
# TOILET PREPARATIONS

UNEQUALLED FOR VALUE IN BRILLIANTINES,  
DRY SHAMPOOS, LOTIONS, FACE CREAMS, ETC.

## JULES FRÈRES LIME CREAM AND GLYCERINE

THE BEST LINE EVER OFFERED TO THE TRADE

### CAMEO SERIES



EQUALLY SATISFACTORY  
IN THE HOTTEST OR  
COLDEST CLIMATE

### ECINOS SERIES



### PRICES:

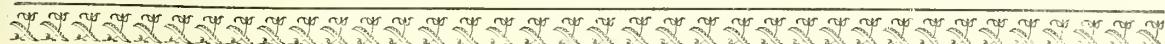
3 oz. Bottles - - -	<b>3/9</b>	per doz.
4 oz. " - - -	<b>4/3</b>	"
6 oz. " - - -	<b>5/6</b>	"
8 oz. " - - -	<b>6/6</b>	"

SEND FOR  
ILLUSTRATED CATALOGUE

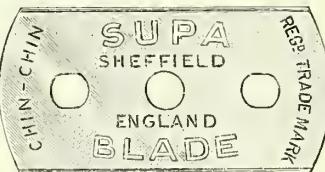
## JULES FRÈRES LTD.

(Sole Agents: P. H. Galloway, Ltd.)

WALWORTH ROAD, LONDON, S.E.17



# The New SUPA Safety Razor Blades



## DEFY COMPETITION

Send for Samples and Prices

THE WAFER RAZOR CO., LTD., 260 Earsham St., Sheffield  
Makers of the World-famous Chin-Chin Blades

## "ODENTIC" PLATE BRUSH



Regd. No. 417637.

From all Wholesalers.

Packed in  $\frac{1}{2}$ -dozen Display Boxes.

Manufacturers:

W. R. Speer & Son (EST. 100 YEARS)  
215 DALSTON LANE - - LONDON, E.8  
Agent for S. Africa—C. GORDON DAVIES & CO.,  
National Bank Buildings, Pritchard Street, Johannesburg.

## TATCHO Sample Size 6d.

6 Bottles in Case for Counter Display,  
4/- PER DOZ.

PROMOTES, PRODUCES,  
BEAUTIFIES THE HAIR  
1/3 size .. 12/6 per doz.  
2/3 size .. 26/- per doz.  
TATCHO Laboratories, 5 Great Queen Street, London, W.C.2

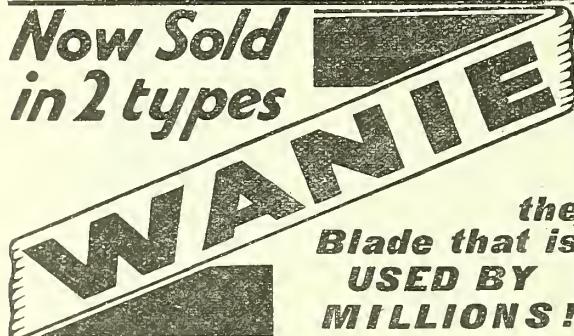
### The REAL Eyelash GROWER

## "Crescent" EYELASH OINTMENT

Recommended by Oculists and Beauty Specialists. Delights all Customers.

Selling price 7/6 per pot. Trade 60/- per doz. Attractively packed for show purposes in Gold Cartons of half-a-dozen. Send now to—THE CRESCENT PREPARATIONS CO. 4 Woodlands Rd., LONDON, S.W.13 Phone: Putney 2149

Now Sold in 2 types



the  
Blade that is  
USED BY  
MILLIONS!

In response to a growing demand from all parts of the Globe, the makers of Wanie are now producing a new type of Blade—to fit Ever-Ready Holders. This new Blade has all the characteristics that made the original WANIE (Three Hole Pattern) famous throughout the World. A long-lasting edge that gives smooth, soothing shaves.

Send for sample to Dept. C.D.

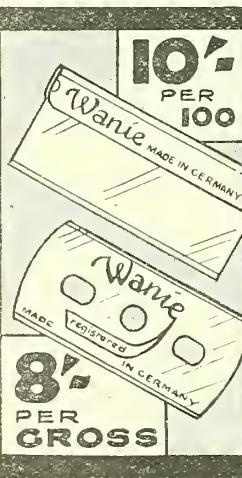
S. KALISKY (Aldgate), LTD.  
146 THEOBALD'S ROAD, W.C.1

Northern Distributors:

S. KALISKY (Aldgate), LTD.  
16 Withy Grove, Manchester

Irish Free State Agents:

Messrs. W. A. Freedman & Co.  
LIMITED  
20-21 Merchants Quay, Dublin



## KING'S "SUPER" SHOWCASES

Ref. No. H2035.

This magnificent Silent Salesman can be supplied in either solid oak or mahogany frame. First quality new  $\frac{3}{4}$  drawn plate glass front, sides and top, with hinged glass door at back.

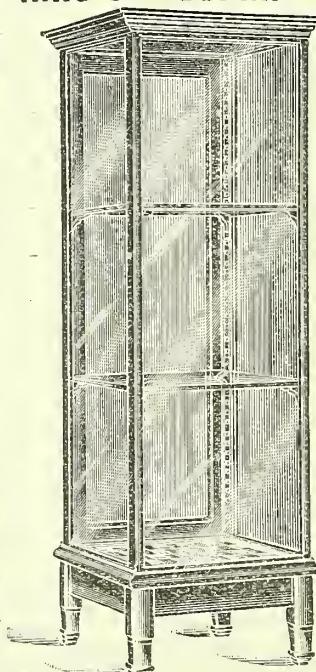
Interior fitted with brown bronze tapped bar and adjustable brackets and 2 plate glass shelves,  $\frac{1}{4}$  thick polished edges.

Bottom of show case fitted polished parquet floor.

Overall Dimensions:  
6' 3" high  $\times$  2' wide  $\times$   
2' back to front.

**£10'0'0**

CARRIAGE PAID  
Within 20 mile area of  
Oxford Circus, London,  
Insured free in Transit.



Send at once for our  
complete list of fittings  
and particulars of our  
Deferred Payment  
System.  
No. 1013 Post Free.

J. C. KING, LTD.  
42-60 GOSWELL ROAD, LONDON, E.C.1  
Phones: Clerkenwell 2316 (6 lines).

**HALF-A-CROWN  
PROFIT ON THE  
LOWEST PRICED  
RAZOR . . .**



**PRICES FROM 7/6**

The Wilkinson Sword Company with its great reputation has come into the open with a great new swift-selling razor. It is being nationally advertised. It is being nationally sold. Stocking now means selling now!

*The NEW*

**WILKINSON-RAZOR**

Manufactured by THE WILKINSON SWORD CO., Oakley Works, Southfield Rd., Acton, W.4

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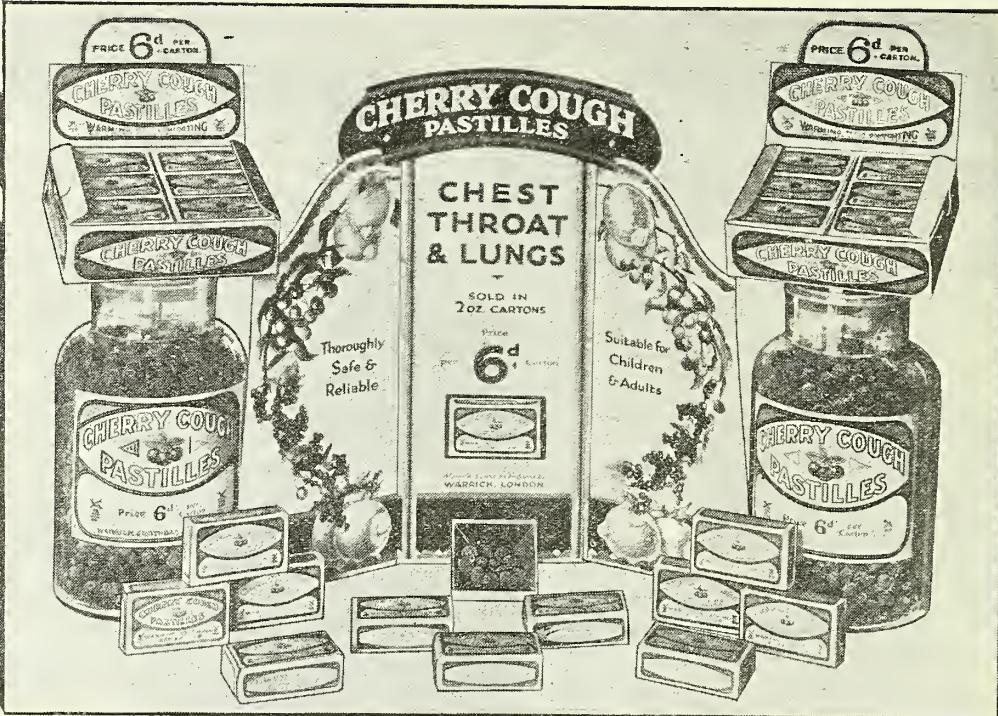
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A Weekly Journal of Pharmacy, the Drug, Chemical and Allied Trades

*The official organ of The Pharmaceutical Society of Ireland,  
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VOL. 115. NO. 2693

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## News of the Week

### Key Industries—Photogravure Screens

The Treasury have made an Order exempting photogravure screens (both rulings on one plate) exceeding 40 in. in length and 30 in. in breadth, and having more than 160 lines to the linear inch, from liability to Key Industries Duty, from September 15, 1931, to December 31, 1932. This Order is made under Section 10 (5) of the Finance Act, 1926.

### Chemists' Exhibition

The Leeds Chemists' Exhibition will be held in the Town Hall, Leeds, from Monday, September 21, until Friday, September 25. The opening ceremony will be performed by the Lord Mayor of Leeds, Dr. Arthur Hawkyard, and a luncheon will follow.

### Sporting Events

Owing to the Cardiff Ladies' open meeting being held on September 22 and 23, the Newbery cup competition has been postponed to Wednesday, September 30, and the Tory bowls to Wednesday, October 7. All entries should be forwarded to Mr. R. L. Hopkins, 88, High Street, Barry.

The Allenbursys golf cup competition (Midland chemists) took place at Worksop on September 13. Twenty players competed, and rain and storms made good play somewhat difficult. The winner was Mr. David S. Cox. The cup was presented on behalf of the directors of Allen & Hanbursys, Ltd., by their representative, Mr. Cox suitably replied.

### Sheffield

The report of the Brightside & Carbrook Co-operative Society for the half-year ended July 1931 shows the cash sales in the drug departments continue to

increase. The sales for the seven departments were £8,380, against £7,350 for the corresponding period last year.

The first "Joy Night" of the local branch of the Pharmaceutical Society and the Sheffield Pharmaceutical and Chemical Society is to take place at the Glossop Road baths on October 15. There is to be a whist drive and dance. Tickets may be obtained from Messrs. J. E. Crowe, C. W. Hobson, E. A. Kirman and C. Piper.

### Miscellaneous

POISON-LICENCE APPLICATIONS.—Mr. W. S. Barnes, Long Bennington, Lincs., has applied to the Kesteven County Council for a licence to sell agricultural and horticultural poisons.—Lloyd's Chemical Co., Ltd., Station Buildings, Maidenhead, have applied to the town council for a licence to sell agricultural and horticultural poisons.

INQUEST.—At Middlesbrough, on September 9, an inquiry was held into the circumstances connected with the death of Lilian Bland. It was stated that deceased, who was a diabetic, on the day prior to her death took the usual quantity of insulin, but refrained from taking a meal. Medical evidence was given that in this instance failure to take a meal was equivalent to taking an overdose of the drug. A verdict of "Death from misadventure" was recorded.

IN THE COURTS.—At Nantwich, on September 7, William C. Grice, chemist and druggist, was summoned for having weights which it was alleged were unjust. There was no conviction, the case being dismissed on the payment of costs.—At the London Sessions, recently, Rose Brophy and Helen Molloy appealed against sentences passed on them at Marlborough Street Police Court on August 13 for unlawfully procuring morphine tartrate tablets. The chairman (Mr. Cecil Whiteley,

K.C.) dismissed the appeals against convictions with costs, but quashed the sentence of imprisonment. He ordered Mrs. Brophy to pay a fine of £25; and Miss Molloy was bound over for two years.

## Scottish Notes

### Brevities

Mr. W. A. Cross, Arden, Conon Bridge, Ross-shire, has applied to the County Council for a licence to sell agricultural and horticultural poisons.

The Duncan Botanical examination will be held on Thursday, September 24, at 8 p.m., at 36 York Place, Edinburgh. Entries should be sent to the Secretary (Mr. D. R. Kay, 11 Keir Street, Edinburgh) not later than September 23.

The annual competition under the auspices of the Scottish Chemists' Bowling Association for the Travellers' trophy took place on September 2. Again the turnout of both wholesale and retail chemists was poor, but the weather may have been the cause. After a keen contest, Mr. J. Carmichael (Leslie) won the trophy by beating his opponent, Mr. Charles Dawson (Aberfeldy). In the absence of the president and vice-president, Mr. C. R. Brown (Edinburgh) took the chair and presented the cup and prizes to the winners. The usual vote of thanks brought the day to a close.

There was a good attendance of members of the Edinburgh Chemists' Golf Club at Duddingston on September 9 for the closing competition of the season. Results were as follows:—*Class I*: (1) M. Stoddart; (2) R. L. Munnoch; (3) J. Finlay, after a tie with A. Henderson. *Class II*: (1) J. M. Foote. The annual general meeting was held in the club-house, Mr. G. P. Cooper (captain) presiding. The secretary and treasurer, in their reports, referred to the successful season which had closed with a membership of fifty-nine and a cash balance on the right side. The leading prizes were won as follows:—Pinkerton, Gibson trophy, M. Stoddart; Edinburgh Chemists' trophy, W. A. M. Hourston; Brown medal (bogey competition), A. Young; T. & H. Smith trophy (hole-and-hole), J. M. Foote. The following office-bearers were elected:—*Captain*, Mr. W. A. M. Hourston; *Vice-Captain*, Mr. H. D. Robson; *Secretary*, Mr. W. H. Chambers; *Assistant Secretary*, Mr. J. Bowman; *Treasurer*, Mr. W. McIntosh; *Committee*, Messrs. G. P. Cooper, J. Adam, W. Barron, A. Miller, R. L. Munnoch, A. Nicolson, E. Randall and W. J. Rosie.

## Irish Notes

### Pharmaceutical Society of Ireland

The latest dates for making application for the October examinations are:—Registered Druggist, Tuesday, September 29; Licence, Monday, October 5; Pharmaceutical Assistant, Thursday, October 15.

### Brevities

Mr. Thomas Sandford, Ph.C., has resigned his seat on Newtownards Urban Council; tributes to his work were paid on the occasion of his retirement.

The Free State monthly trade statistics, just published, show that the value of imports under the head of chemicals, drugs, perfumes, dyes and colours during July was £135,800, against £130,456 in July of last year, and for the seven months to July 31 £747,962, as compared with £738,827 in the corresponding period of 1930.

A verdict of "death from misadventure through accidentally swallowing carbolic acid" was returned at a recent inquest on the body of Mary Reid (2), of Cavan, Upper Killygordon, near Lifford, co. Donegal. The coroner said the jury should pass a general recommendation that any such poison, as had to be used in a farmer's work, should be locked up in a special compartment, and kept in a specially-corked bottle. The jury added a rider to this effect.

Nominations in connection with the annual elections to the Pharmaceutical Council of Northern Ireland will

close at noon on September 21. The four retiring pharmacists are Messrs. H. Todd, H. McRoberts, S. S. Badger and H. Lancashire, and the retiring druggists' representative is Mr. J. F. Grimes. Mr. Lancashire is not coming forward again as the official candidate of the North Irish Pharmacists' Association; in his place will be Mr. S. H. Forrest, Bangor.

## Association Meetings

**Portsmouth.**—There was a good attendance at the recent twenty-third annual meeting of the Portsmouth Pharmacists' Association, and a satisfactory report was submitted of the past year's work. Mr. W. L. Egerton presided, and at the outset made feeling reference to the death of Mr. T. E. Greenhalgh, who had been a greatly respected and popular member of the Association. Messrs. L. J. Evans, W. E. Bown and R. G. Tremlett were elected as new members. The treasurer's report was presented by Mr. F. Hemming, and this showed the good balance in hand of £48 10s. 5d. The secretary's report was submitted by Mr. F. H. Ruoff, and was of an equally gratifying character. Mr. J. W. Rogers was elected as president in succession to Mr. Egerton, who had admirably carried out the duties of the office for two years. Mr. F. Hemming was elected vice-president and Mr. G. W. Darling treasurer, while Mr. Ruoff was again appointed secretary. Messrs. J. E. Eyres were re-elected auditors. The committee appointments were as follows:—*General*, Messrs. W. R. Atterbury, W. H. Bown, W. L. Egerton, C. Fry, A. W. Goddard, E. D. Lewis, H. A. Mecoy, and W. L. B. Murray, with the officers; *Trade*, Messrs. W. R. Atterbury, W. H. Bown, W. L. Egerton, C. Fry, M. L. Gregory, T. A. Johnson, J. W. Rhodes, J. W. Rogers, and F. H. Ruoff. A donation of five guineas was voted to the Benevolent Fund of the Pharmaceutical Society, and one of two guineas to the Orphan Fund. Affiliation fees of one guinea each to the Early Closing Association and the Portsmouth Chamber of Commerce were also renewed.

**Scottish Pharmaceutical Federation.**—A meeting of the Executive Council of the Scottish Pharmaceutical Federation was held in Edinburgh on September 9, Mr. Alexander A. Dick (president) in the chair. Among other matters, the following were under consideration: Indemnity claim against a member by a person who came into the member's shop and asked if he might use his telephone, but after doing so he fell through a trapdoor which an assistant had left open (claim not yet settled); reports were given of various N.H.I. test prescription cases against members, including the results of analyses made by the Federation's analysts, and a letter was read from the Department of Health for Scotland explaining the delay of four months in one of the cases; a letter was read from the proprietors stating that stamped Antiphlogistine would be withdrawn from sale on September 1, and that a single priced schedule will be issued; complaint by a member that two five-gallon tins of olive oil supplied to him were not B.P. standard, as indicated on the invoice (reported that the suppliers (1) had paid the Federation's analyst's fee for analysing the olive oil, (2) had paid a small claim by the member for loss and outlays, and (3) had supplied the member with two new complete five-gallon tins of B.P. olive oil); a communication was sent to Edward Taylor, Ltd., the proprietors of Emergoplast, taking exception to an advertisement in Glasgow newspapers advertising a free sample of Emergoplast being obtainable only at one of the shops of a company of multiple chemists (reported that Edward Taylor, Ltd., had replied stating that immediately their present commitments are finished no free sample schemes will be decided upon unless they are extended to the whole trade); the present position of the Pharmacy and Poisons Bill was considered, and it was left with the Subcommittee dealing with the matter to take any further action necessary. The audited accounts of the Federation for the year ended April 30, 1931, were submitted and approved. These were considered very satisfactory.

## Westminster Wisdom

### Notes on Parliamentary Matters

#### DANGEROUS DRUGS CONVENTION

Lieut.-Colonel Fremantle asked the Under-Secretary of State for Foreign Affairs on September 14 whether British ratification of the 1931 Narcotics Limitation Convention has yet been decided upon; and, if not, when is a decision regarding ratification likely to be made?

Captain Eden: I am informed that legislation amending the Dangerous Drugs Acts in certain respects will be necessary before the Convention for the Limitation of the Manufacture of Narcotic Drugs can be ratified. The matter is under consideration.

#### PATENT MEDICINES

Mr. Mills asked the Chancellor of the Exchequer on September 14 if he is aware that Thermogene, Antiphlogistine, and many other patent medicines are now being sent to qualified chemists without revenue stamps of 3d. and 6d. attached, and whether, as chemists are

suffering from this recent policy, he will consider what steps should be taken to protect the revenue?

Mr. Snowden: The law provides for exemption from Medicine Stamp Duty in favour of "known, admitted and approved" remedies when sold under certain conditions by duly qualified chemists or druggists. I am aware that certain manufacturers have taken steps to bring their preparations within the scope of that exemption, but this is not a matter in which I can interfere.

## Business Changes

TIMOTHY WHITES (1928), LTD., have added a new drug department to their stores at High Street, Surbiton.

MR. G. R. SMEDDLES, chemist and druggist, has opened a pharmacy at 4 Mikasa Street, Walney Island, Barrow-in-Furness.

MR. F. D. P. SMITH, chemist and druggist, has taken over the business of Mr. C. T. Kemp, Ph.C., 46 Bridge Street, Hereford.

## Topical Reflections

By Xrayser

#### National Economy

is at last to be organised in a way that will bring its urgency home to everyone, and not least to chemists and druggists. In common with others, including doctors, who have relations with Government departments, to the extent that those departments have power to control purse-strings, we are to submit to a deduction in our remuneration for National Health Insurance dispensing. The insurance practitioner is to have his rate of nine shillings per head reduced to eight shillings, and a similar percentage reduction is to be made from the chemist's remuneration as from October 1, 1931. This I should estimate as being roughly equivalent to a reduction of a penny in the dispensing fee, but it may well be that the surplus likely to be available this year will provide a sufficient amount to effect the stipulated economy without any deduction from the chemists' accounts. In such case we shall, of course, receive less in the shape of bonus, but it will be a matter for satisfaction if our accounts are paid in full and we have yet been able indirectly to take part in rehabilitating the national finances. There will, in addition, be the extra burden of income tax; but we are mercifully spared any interference with the spirit duty, with attendant complications and non-preventable loss.

#### Christmas Goods

are this year being featured in your columns, not only before the summer is ended, but actually before it has arrived. Wherever summer may have been, it has certainly not been with us stay-at-homes in Britain, and I must confess to having already had anticipations of Christmas as being not far ahead. It is just as well that we should begin in good time to think of Christmas stocks at this present depressing end-of-the-holiday period, for the extra demands to be enforced by the Government early next year will cause a far from limited strain upon our resources. You are therefore rendering us another valuable service by giving early particulars of goods which it may profit us to stock and display well in advance of what ought to be the festive season. The toilet trade is one which I have long advocated as being peculiarly suitable for the chemist and druggist to develop. I would, however,

advise that greater discretion than is sometimes displayed should be exercised in making a choice of the toilet goods to be on view. Whilst it may not be politic to refrain from holding some stock of any popular line, it seems to me inadvisable to give window displays of the same articles as are being shown in the windows of neighbouring hair-dressers, stationers, and others. We ought to pose as specialists in this particular business, and make it worth the while of manufacturers to restrict their goods to us as far as possible.

#### Barnard S. Proctor

gave utterance to many wise things in his time, but nothing wiser than what was quoted last week in your retrospect of fifty years ago (p. 352). It may be news to those who to-day advocate the exercise of discrimination between professional and trade matters in pharmacy that, half a century ago, the same principle was being inculcated by one of the leading pharmacists of his day. He was very insistent upon the desirability of preserving the distinction between matters of mere trade and operations involving skill and responsibility. This applies, of course, elsewhere than in the practice of pharmacy in shops; but it seems particularly important that we should preserve the distinction, and I hope my reference to this matter will have the effect of making a number of your readers turn back to last week's issue of the *C. & D.*, and read with care what Proctor wrote. But I should like to recapitulate here and comment upon his various points dealt with in the paper from which you quote. In the first place we ought not to expect to realise the same profit upon the simple retailing of goods as upon the compounding and dispensing of medicines; as a corollary, it is unwise to cut prices for dispensing, as though this peculiarly professional work were on a par with the retailing of goods. Secondly, the pharmacist who would honour his profession should do his best to keep it quite distinct from the trading side of his calling; the latter need not be entirely avoided, particularly in view of the recognised insufficiency of our professional work alone to provide a livelihood, but it should be conducted on separate lines and be rewarded on a different scale. In conclusion, the pharmacist will do well to observe how other craftsmen discriminate in making their charges between what is to be paid for material and what for skilled work. *Verba sap.*

## New Companies and Company News

P.C. means Private Company and R.O. Registered Office.

**SUNBREZE PRODUCTS, LTD. (P.C.)**.—Capital £6,300. Objects: To carry on the business of wholesale or retail chemists and druggists, etc. R.O.: 35 Great Tower Street, E.C.3.

**BOWERMAN CASH CHEMISTS, LTD. (P.C.)**.—Capital £500. Objects: To carry on the business of chemists, druggists, opticians, dentists, etc. Solicitors: Symons & Gay, 67 South Street, Romford.

**WATFORD PHARMACIES, LTD. (P.C.)**.—Capital £100. Objects: To carry on the business of pharmaceutical, consulting, analytical, manufacturing, wholesale and retail chemists, herbalists and druggists, etc.

**H. T. HOLME, LTD. (P.C.)**.—Capital £1,000. Objects: To acquire the business of a chemist and druggist now carried on by Letitia Holme at 3 Market Place, Wallingford, Berks. Solicitors: Hedges & Son, Wallingford.

**W. GULLIVER & CO., LTD. (P.C.)**.—Capital £2,000. Objects: To carry on the business of manufacturers of and dealers in varnish, lacquer, paint, colours, oils, chemicals and any materials or articles used in the manufacture thereof, etc.

**JOHN FERGUSON (EDINBURGH), LTD. (P.C.)**.—Capital £1,600. Objects: To carry on the business of manufacturers and commission agents, general merchants and agents, importers and exporters, etc. R.O.: 13 North Bank Street, Edinburgh.

**CRYSTAL PRODUCTS CO., LTD. (P.C.)**.—Capital £1,000. Objects: To carry on the business of manufacturers of agents for and dealers in patent, pharmaceutical preparations, patent medicines, drugs, perfumes, creams, hair washes, dyes, cosmetics, etc.

**AMALGAMATED TRADING CO., LTD. (P.C.)**.—Capital £10,000. Objects: To manufacture and deal in ores, metals, minerals, chemicals, chemical products, fertilisers, fertilising and vegetable products, etc. Solicitors: Slaughter & May, 18 Austin Friars, E.C.2.

**CARDWELL & SON, LTD. (P.C.)**.—Capital £1,500. Objects: To acquire the business of a retail chemist now carried on by F. Moore-Cardwell at 98 Commercial Street, Brighouse, as "S. Cardwell & Son." Solicitors: Storey, Williams & Storey, 3 King Cross Street, Halifax.

**HEARITE, LTD. (P.C.)**.—Registered in Dublin, September 3. Capital £500. Objects: To carry on the business of manufacturers of and dealers in acoustic aids and appliances for the deaf; opticians and electricians, etc. R.O.: 136 St. Stephens Green, Dublin.

**DELZOVA, LTD. (P.C.)**.—Capital £500. Objects: To carry on the business of manufacturers of chemicals, chemical solutions, mixtures, compounds, etc. The directors are:—E. M. Amphett, M.C., 52 The Drive, Fulham Road, S.W.6, and J. H. Lord, C.A., Bentley Lodge, College Road, S.E.19.

**CAULINUTE PRODUCTS, LTD. (P.C.)**.—Capital £1,500. Objects: To acquire from W. B. Cowell the benefit of his nutrients and sterilising agents or other substances called by him by the name of "Caulinute," and of his "Rodarub" road-making process, and to carry on the business of chemists, provision dealers, roadmakers and contractors, etc. R.O.: 10 & 12 Bishopsgate, E.C.2.

**CLEEVES MILK PRODUCTS, LTD. (P.C.)**.—Capital £100. Objects: To carry on the business of agents for, manufacturers, importers, exporters and packers of and dealers in condensed milk, dried milk, milk powders, milk sugars, casein, cream, milk fats and other derivatives of milk; dairymen, manufacturers of and dealers in all kinds of sheet tin, tins, boxes, etc. Solicitors: Neve, Beck & Crane, 21 Lime Street, E.C.

**REGENT CHEMISTS, LTD. (P.C.)**.—Nominal capital of £100,000. The objects are to carry on the business of British and foreign pharmacists, chemists and druggists, wholesale and manufacturing chemists, soap manufacturers, manufacturers of and dealers in toilet requisites and manufacturers of all kinds of boxes and cases, etc. The first directors are to be appointed by the subscribers. Qualification: £1,000 shares. Solicitors: C. Butcher & Simon Burns, 32 Gresham Street, E.C.2.

**CENTRAL OIL MINING AND CHEMICALS TRUST**.—Accounts to May 1, 1931, show debit balance of revenue account of £6,403, against £3,625 for the previous year.

**BOOTS PURE DRUG CO., LTD.**.—Interim dividend of 24 per cent., less tax, on the ordinary shares for the quarter, payable October 1. Same rate as in previous quarters.

**KLEENFAST SOAP COMPANY, LTD.**.—At a meeting held at Long Eaton on September 7 it was resolved that this company be wound up voluntarily. Mr. P. R. R. S. Storrey, Victoria Chambers, Long Eaton, was appointed liquidator.

**COOPER, McDougall & Robertson, LTD.**.—Directors report trading has been maintained, having regard to world conditions. In view of the state of international finance it has been decided not to pay an interim dividend on the ordinary share capital of £824,411. In the previous report an interim dividend of 3 per cent. was declared, followed by a final dividend of 4 per cent.

**BEECHAM'S PILLS, LTD.**.—Half-year's dividend on the eight per cent. cumulative participating preferred shares and an interim dividend at the rate of ten per cent. per annum (five per cent. actual) on the deferred shares, both payable on September 30. A year ago 7½ per cent. was distributed, followed by a final payment at the same rate, making fifteen per cent. per annum on the £250,000 of deferred capital. The directors state that, while the business of the company and its subsidiaries has been fully maintained, in view of the general position they deem it desirable at the moment to conserve resources, and for this reason they have reduced the amount of the interim dividend on the deferred shares.

## Application for Discharge

**Mr. Washington Palmer**, Slade Lane, Longsight, Manchester, chemist and druggist.—At the Manchester County Court on Monday, September 14. The Official Receiver drew the attention of Judge Leigh to the fact that the receiving order had been made as long ago as June, 1914. A dividend of 2s. 7½d. had been paid on proofs for £442. Mr. Palmer, proceeded Mr. Taylor, had attributed his failure partially to the non-payment of the full amount due to him under the National Health Insurance Act and the decline in turnover after that Act had come into operation. Prescribing by medical practitioners had affected his counter trade and his trading in patent medicines had also been adversely affected. According to Mr. Palmer the Insurance Commissioners allowed 2s. per patient for the chemist, and there was a tariff under which the chemists made their charges, but the payment depended upon the funds available in the drug fund, and if these proved insufficient for payment of the chemist's charges in full they had to take what was left. The ascertained amount due to him at the date of the receiving order from the Commissioners was £66. There was some delay in arriving at the amount available for the payment of this amount out of the drug fund, and up to the declaration of the first dividend on December 22, 1914, the Official Receiver had only recovered £5. Finally £53 was received. Judge Leigh stated that under recent legislation he would have been able to deal with Mr. Palmer leniently, but his failure had occurred so long ago that he had no option but to suspend the discharge for two years.

# Pharmaceutical Society of Ireland

## Council Meeting

THE monthly meeting of the Council of the Pharmaceutical Society of Ireland was held at 67 Lower Mount Street, Dublin, on September 8, Mr. Denis J. Nugent (president) in the chair. The following members of the Council were also present:—Dr. Michael Ryan (vice-president), Messrs. Patrick Brooke Kelly (treasurer), P. J. Fielding, John Smith, James McCormack, John J. Roche, P. D. Larkin, T. Costelloe, Michael J. Kieran and P. Kieran. Mr. James J. R. Kerr (registrar) was in attendance.

### VOTES OF SYMPATHY

Votes of sympathy were passed in silence, the members standing, with Mr. J. J. Cole, T.D., Ph.C., on the death of his wife; with the relatives of the late Mr. Denis V. Sullivan, M.P.S.I.; and with Mr. Gerald O'Neill, M.P.S.I., on the death of his brother.

### THE QUESTION OF CONTRACEPTIVES

The PRESIDENT said he had seen Mr. Meeke (law advisor) with reference to contraceptives. Mr. Meeke was placing the wishes of the Council before the draftsman.

The registrar read the following letter addressed to him by Mr. Davidson, the Dublin manager of May, Roberts & Co., Ltd., Grand Canal Quay, Dublin:—

“... With reference to the deputation which waited on the Council of the Pharmaceutical Society of Ireland with regard to the sale of contraceptives in this country, it is our desire to conform with the general wish in connection with this matter. If it is considered desirable that we eliminate all such goods from our stock we shall be very pleased to do so. It will greatly oblige if you will kindly place this communication before the next meeting of the Council and advise us of their wishes. . . .”

The PRESIDENT said that after their discussion on this matter at their July meeting, Mr. Davidson telephoned to him and said that he had received a communication from London stating that, if it was the wish of the Council, they would be very happy to fall in with them. He (the president) said the Council would appreciate very much the attitude of Messrs. May, Roberts & Co. in the matter.

Mr. BROOKE KELLY: Very satisfactory.

The PRESIDENT: Once they get going they will all have to fall into line.

Mr. FIELDING: It is very satisfactory.

The PRESIDENT: Very satisfactory.

On the motion of Mr. M. J. KIERAN, seconded by Mr. McCormack, the following resolution was passed unanimously:—

“That the Council of the Pharmaceutical Society direct the registrar, Mr. J. J. R. Kerr, M.P.S.I., to thank Messrs. May, Roberts & Co. for their letter of the 5th inst. and to say that it is the wish of the Council that the sale of contraceptives be discontinued, and that the Council highly appreciate Messrs. May, Roberts' attitude in the matter.”

### CHANGES OF ADDRESS

The following notified changes of address:—Mr. J. A. Bingham, Ph.C., to 561 Upper Newtownards Road, Belfast; Mr. John J. Smith, M.P.S.I., to the Blackrock Pharmacy, 34 Main Street, Blackrock, co. Dublin; Mr. Sydney M. Morris, M.P.S.I., to 143 Uxbridge Road, Hanwell, London, W.7; Mr. James W. O'Gorman, Ph.C., to the Pharmacy, 5a Harcourt Street, Dublin; and Mr. R. O. Smythe, R.D., to 141 Links Road, Tooting Junction, London.

### PRELIMINARY REGISTRATION

Mr. M. J. Mullen, who submitted a National University matriculation certificate, was admitted to preliminary registration.

### MEDICINAL PLANTS AND ESSENTIAL OILS

Mr. BROOKE KELLY said he had attended the fourth International Congress on the subject of medicinal plants and essential oils held at Paris, and he was indeed pleased with the many things brought to his ken with respect to analyses of essential oils in order to bring them to a unified perfection. They were shown the best methods of propagating things of the vegetable kingdom and the effects of climate, situation, manuring, personal treatment and selection, all of which were qualified by scientific research based in many cases on physiological standardisation, weight of product and chemical tests. They saw the growing of those plants at Milly and at Boulanger Dausse's farm, where they were also shown a demonstration of the comparative effects of a vegetable product derived from scoparium or broom, and adrenalin, demonstrating that the vegetable kingdom is now, as always, rich in remedies which, for want of care in their growth and subsequent preparation, want of proper instruction in the schools of medicine and pharmacy, and want of monetary help in research from their Governments, were dying everywhere except where there is not a lack of all these matters. He submitted to his colleagues the French texts of the proceedings and advised that investigation should be instituted by all persons concerned in this country, as he felt certain that many valuable specimens could be found of the official and non-official plants which, if cultivated on proper lines, would perhaps lead to a new industry and result in many useful products being added to their stock and others perfected.

Mr. FIELDING said that the University College, Cork, had been successfully experimenting in the distillation of essential oils, particularly oil of lavender and peppermint.

The PRESIDENT said he happened to be in Galway not very long ago and was taken over the iodine factory there; it was very interesting.

Mr. McCormack said that Mr. Brooke Kelly, in going through France, saw districts which went in for herb cultivation and nothing else.

The PRESIDENT said there was in England a huge farm which grew nothing else but herbs.

### BRITISH PHARMACEUTICAL CONFERENCE

The PRESIDENT bore testimony to the cordiality with which he had been welcomed at the British Pharmaceutical Conference and the kindness which he had experienced from those whom he met there.

### REPORTS FROM COMMITTEES

Reports from the following Committees were received and adopted:—The Certificates Committee, the Law Committee, the Schools Committee, the House Committee, and the Scholarship Committee.

### SCRUTINEERS OF THE BALLOT

On the motion of the PRESIDENT, seconded by Mr. P. KIERAN, Mr. T. Costelloe and Mr. D. Warwick were appointed scrutineers of the ballot.

### ELECTIONS AND NOMINATIONS

On the motion of the PRESIDENT, seconded by Mr. BROOKE KELLY, the following were elected to membership:—Miss M. J. Rogan, Windy Arbour, Dundrum, co. Dublin; Mr. R. M. Thom, Kimmage Pharmacy, Kimmage, co. Dublin; Mrs. H. C. Mulligan, Medical Hall, Passage West, co. Cork; Miss A. Farrington, St. Anne's, Kimmage, Terenure, Dublin; Mr. M. J. O'Rourke, 97 Lower George's Street, Dun Laoghaire, co. Dublin; Mr. Francis Doyle, 12 Upper George's

Street, Dun Laoghaire, co. Dublin; Mr. Wm. T. Hinchy, Munster Pharmacy, 14 South Main Street, Cork; Miss G. D'Arcy, Tipperary Pharmacy, Tipperary; Mr. T. B. Cahill, Main Street, Castlebar, co. Mayo; and Mr. E. Ronaghan, 14 Parliament Street, Dublin.

Mr. C. P. Nolan was elected to associateship.

On the motion of the PRESIDENT, seconded by the Vice-President, the following were nominated for membership:—Mr. M. O'Donnell, The Dispensary, 37 Castle Street, Dublin; Mr. Patrick Cagney, 1 Castle Street, Sligo; Mr. J. W. O'Gorman, The Pharmacy, 5A Harcourt Street, Dublin; Mr. Sydney M. Morris, 143 Uxbridge Road, Hanwell, London, W.7; Miss M. J. Shannon, Dunluce Glenageary, co. Dublin; Mr. Eugene McMahon, c/o Digge's Medical Hall, Ranelagh, Dublin; and Mr. Sean O'Luaglais, 29 Belgium Square, Monaghan.

The following were also nominated for membership:—Mr. Joseph Hughes, Nyal Pharmacy, Main Street, Portlaoighise (proposed by Mr. McCORMACK and seconded by Mr. JOHN SMITH); Mr. Jeremiah Bourke, 12 West Street, Drogheda (proposed by Mr. LARKIN and seconded by Mr. T. COSTELLO); and Mr. Wm. H. Harman, The Medical Hall, Carrick-on-Shannon, co. Leitrim (proposed by Mr. M. J. KIERAN and seconded by Mr. P. KIERAN).

#### THE BENEVOLENT FUND

On the motion of the PRESIDENT, seconded by the Vice-President, a resolution was passed conveying the best thanks of the Council to a number of subscribers to the Benevolent Fund.

#### SEALING OF PHARMACEUTICAL LICENCES

On the motion of the PRESIDENT, seconded by the VICE-PRESIDENT, the Pharmaceutical Licences of the following were directed to be signed and sealed:—Miss Eileen Murphy, Miss Annie R. Maguire, Miss Alice M. Buttiner, Miss Kathleen Murphy, Messrs. Eugene MacMahon, Patrick J. Lillis, John J. C. Maguire, William A. Ryan, Eric L. Grubb, M. G. Durcan, Denis Daly, John S. Bennett, Bartholomew P. Hickey, A. W. Hendy, John Magnier, Denis J. Murphy, John Leahy, John P. Crowe, Augustine A. Hayes, Gerard D. Golden, Wilfred O'Donnell, and John C. Walshe.

#### THE COMING ELECTION

The PRESIDENT expressed the hope that all the retiring members of the Council would return on re-election.

## Chemists' Meeting in Galway

At the request of a number of chemists in the west a meeting was convened to meet the president and some members of the Council of the Pharmaceutical Society of Ireland on September 6 at the Royal Hotel, Galway. The meeting was fully representative of western pharmacy.

#### MR. NUGENT'S ADDRESS

Mr. J. Costello, M.C.P.S.I. (Galway), presided, and welcomed Mr. Nugent (president of the Society), Dr. Ryan (vice-president), and three members of the Council, Mr. J. J. Roche and Messrs. P. and M. Kieran. He then asked Mr. Nugent to address the meeting. Mr. Nugent, who was cordially received, stated that the meeting was called at the request of a number of chemists in the west who were anxious to know more about the work being done by the Council, and to come in closer contact with their elected representatives. A number of his friends seemed to think that the offices of president and membership of the Council were sinecures. He assured them that such was not the case. During the past year the work required the constant attention of every member, and with their loyal co-operation they had done work which would benefit every Irish pharmacist.

During the year the business of the country chemists was seriously threatened by certain clauses in the Veterinary Surgeons' Bill, which was introduced by the Government. The Council at once appointed a special Committee to deal with the situation. Legal advice was obtained, the Minister in charge interviewed, representatives of all parties were canvassed and after a strenuous time in the Dail during the debates the justice of our demands was accepted, and the objectionable clause was deleted, and a clause which we had drafted substituted. Chemists were now free to sell and recommend veterinary remedies and to recover payment in court for such goods supplied to customers.

#### DRAFT PHARMACY BILL

During the year two special all day meetings of the Council were held to deal with differences between the Government draft Pharmacy Bill, and the draft Bill which the Society had submitted to the Government. The Government draft was at present a confidential document, but he was breaking no confidences by stating that in all the fundamentals it was almost identical with the Society's draft Bill. There were still a number of differences between them, wording of clauses, legal phraseology—chiefly matters of draftsmanship—some questions of different procedures, but they had the able

assistance of their law adviser, Mr. Meeke, who was the recognised authority on pharmacy law in Ireland, and hoped to have all outstanding differences with the Government amicably settled before the Bill was submitted to the Dail. When the Bill was printed it was their intention to call a meeting of every chemist and druggist in the Free State, and have a full discussion on every point. If, then, there were any serious disagreement by a majority of their members with any clause in the Bill they would introduce suitable amendments and use all their influence with members of the Dail (and he would like to ask every individual chemist to cultivate the acquaintance of his local Member) to have these amendments put into the Bill.

#### RECIPROCITY

A number of letters had appeared in the trade press during the year, and he had noticed most of these letters were in the form of destructive criticism of the Council and particularly of his own attitude on reciprocity in the Pharmacy Bill. His opinion and that of most of his colleagues was that the opportunity now arises for taking the power of granting reciprocity to any country or colony which would benefit their members who would be wishing to practise abroad without the likelihood of nationals of such country or colony opening business in the Free State. During his term on the Council he had seen a number of their licentiates who had gone to America, Canada, South Africa and Australia prevented from getting registered as fully qualified chemists in these countries. Where was the objection to taking the power to do so now when they were preparing legislation for future generations, and he felt that it would be wrong on their part not to obtain the power to act as they thought would fully benefit their members when such applications come before the Council from time to time. He could assure them that from his experience of the Council it would be impossible for a majority to be obtained to vote for reciprocity with any country which would be in any way likely to cause an invasion of hungry foreign pharmacists to this country. Every member of the Council was in business himself and would naturally oppose such a request tooth and nail. He hoped that he had made his views quite clear—that neither he nor his colleagues were in favour of unrestricted reciprocity as stated by the writers in the press. (Applause.)

Mr. Nugent then dealt with the new Scholarship Scheme and the herbarium for the use of students. This was his first visit to Galway, and he was delighted to meet such a representative body of western pharmacists. They were very well represented on the Council by Messrs.

P. and M. Kieran and by their chairman—Mr. J. Costello. He urged them to get together for their own interests and form an association for the west—meeting occasionally, having their Council members to see that their grievances and views were put before the Council. (Applause.)

## DISCUSSION

Dr. Ryan thanked the local Committee for their kind invitation and hearty welcome. He stressed the critical period they were about to pass through when the Pharmacy Bill came to the Dail, when their status in the life of the community would be examined and when it would be necessary for them to stand together to get the best possible Bill from the Government. He referred particularly to the need for members keeping in touch with each other, and with their local members of the Council, so that a united front could be presented and their demands for improved status respected. (Applause.)

Mr. Roche stated that as a rather junior member of the Council and not being a member of the legislative committee during the days of construction when the new Bill was being hammered into shape, he could only state that he had carefully examined the Bill as it applied to his own business. He was managing director of a private limited company, and he considered the clause in the new Bill which dealt with limited companies trading as pharmaceutical chemists, an attempt, which should be successful in preventing the formation

of companies by persons completely ignorant of pharmacy, but who thought there was a fortune in it.

Mr. Michael Kieran said this was his first visit to Galway, and he hoped this would be a forerunner of many more meetings. He congratulated all present on their interest in the Society, and said that while such a spirit existed, the future of Irish pharmacy was assured. (Applause.)

Mr. Patrick Kieran remarked that he would again refer to reciprocity, as so many false statements were made regarding the Council on this matter. He wished to assure his friends that the Society would give nothing away. The Council was firm and strong, and those present could rely on the president as well as his other colleagues on the Council. (Applause.)

A discussion contributed to by many present followed and a number of questions regarding the work of the Council were asked and replied to by Mr. Nugent.

It was decided to form a West of Ireland Chemists' and Druggists' Association, and the following were appointed to act as a Committee:—Messrs. F. Stafford, M. J. Nolan, R. O'Farrell, J. Whelan, Philip Ryan, S. J. Barry and Miss Cuniffe. Messrs. G. Hewson and M. Mulvaney were appointed Joint Secretaries, and all members of the Pharmaceutical Council to be *ex officio* members of the Association.

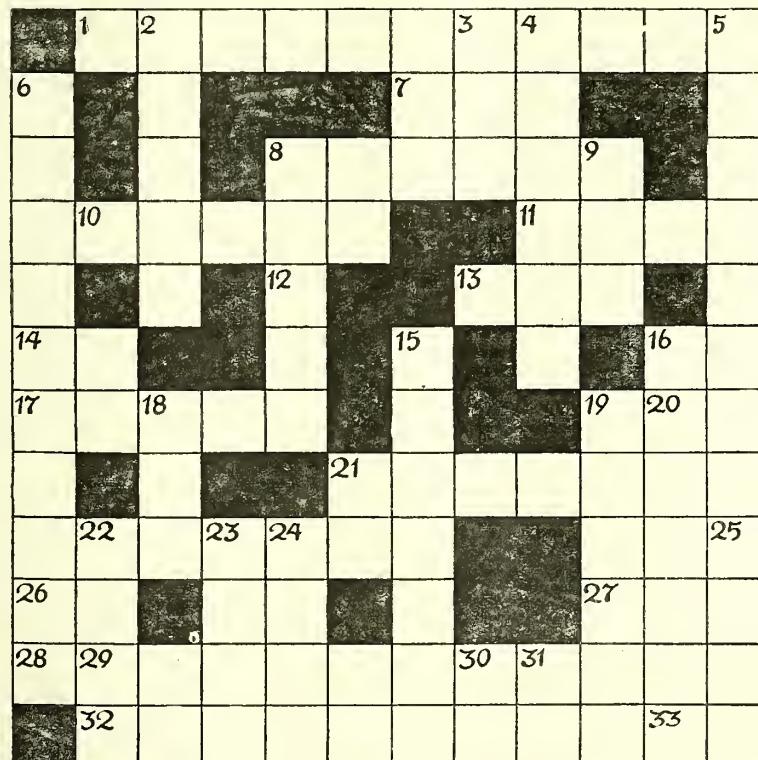
Votes of thanks having been passed to the chairman and secretary, the meeting closed. An enjoyable musical evening followed.

## "C. & D." Crossword Puzzle

A FEW years ago we set for competition a crossword puzzle sent us from Torquay. The present example comes from a subscriber in Scotland. On the previous occasion there was a small "field," and no one arrived at an entirely correct solution; we trust that on this occasion the result will be different in both respects. The competition is open to *C. & D.* subscribers and their assistants. Most of the

words and designations are used in pharmacy. Solutions, each of which must be sent in a sealed envelope with the name and address of the competitor and endorsed "C. & D. Crossword Puzzle" on the outside of the envelope, must reach us not later than the first post on Monday morning, September 28. In the event of a tie, the time of receipt will be taken into account. Prizes will be awarded at the discretion of the Editor, whose decision will be final.

DOWN  
 2. This drug comes from Russia  
 3. An Edgar Wallace word  
 4. A channel  
 5. Suggests the heavenly host  
 6. Your clock does this  
 8. You will find this on the tea table  
 9. You will find this on the dinner table  
 12. Metric measure  
 15. The gardener said this about the roses  
 18. This drug suggests regret  
 19. Galenicals  
 20. Drug which suggests discomfort  
 23. Navvies use these  
 24. Sometimes associated with plaster  
 25. This drug is in your eye  
 29. Politician associated with N.H.I.  
 30. Initials of a popular proprietary  
 31. Same as 16 across



ACROSS  
 1. Used in an official tincture  
 7. Suggests a tumble  
 8. What the oranges said  
 10. Said of an ancient warrior  
 11. Can be seen in the House of Commons  
 13. A sweet drug which suggests a hammer  
 14. A gas-formula  
 16. A light metal  
 17. Water is sometimes called this  
 20. "Before food"  
 21. "Avanti"  
 22. A famous diarist at home  
 26. Another light metal  
 27. Where the ergot comes from  
 28. A sweet medicament  
 32. The lady is evidently requested to smile  
 33. What an editor receives

# Insurance Act Dispensing

## National Economy

THE following is the text of correspondence passed between the Ministry of Health and the Retail Pharmacists' Union on the subject of a percentage deduction from the remuneration otherwise payable to insurance chemists:—

Ministry of Health,  
Whitehall, S.W.1.  
September 5, 1931.

SIR.—I am directed by the Minister of Health to say that in accordance with the arrangement arrived at during the interview held by me on his behalf with representatives of the National Health Insurance Committee of the Union on September 3, he desires to put before the Union in writing the proposal which H.M. Government find it to be their duty to submit to Parliament for a percentage deduction from the remuneration otherwise payable to insurance chemists under their agreement with the Department.

The proposal is that on account of the financial position of the country, and on that account alone, the amounts payable to insurance chemists under the agreement after meeting the cost of drugs and appliances supplied by them in full, should be made subject to a deduction of one-ninth, and that the payment to the Exchequer of the sum realised by this deduction should be secured by legislation.

I endeavoured on Mr. Chamberlain's behalf to place the representatives of the Committee who were so good as to meet me in possession of the general grounds on which he would, had he not been unavoidably absent, have explained that H.M. Government base this proposal as an integral part of the proposals for reduction of national expenditure which will be brought forward as soon as Parliament meets.

I therefore think it will be sufficient for me to recapitulate the following points which were dealt with at the interview.

(1) In view of the extreme urgency of the situation, the percentage deduction requires to take effect from October 1.

(2) Mr. Chamberlain desires me to repeat that the proposal for a percentage deduction is not based upon any consideration of the justification or otherwise for the present remuneration of insurance chemists on its merits, but is due to the financial position of the country.

(3) The period during which the percentage deduction will continue to be made is the period from October 1, 1931, to December 31, 1932, when the insurance chemists' agreement with the Department expires.

Before the expiration of that agreement it will be necessary to arrive at a fresh agreement as to the remuneration of insurance chemists from January 1, 1933, and the terms and conditions of that agreement will require to be considered and settled on their merits of negotiation. Mr. Chamberlain hopes that the Union will accept his assurance that so far as he is concerned such consideration is not prejudiced by the present proposal. Should a deduction from the agreed remuneration still have to be made by reason of the country's necessities, Mr. Chamberlain is confident that insurance chemists will be ready to continue to take their share of sacrifice with other classes of the community.

(4) Mr. Chamberlain recognises that comparable contributions to the needs of the Exchequer should so far as practicable be secured from other bodies of persons concerned with the administration of the National Health Insurance Acts, and not from insurance chemists alone, and he is actively engaged in dealing with this point in relation to other bodies.

He is confident that, when the complete proposals of H.M. Government are laid before Parliament and the public, insurance chemists will be satisfied that the percentage deduction from their remuneration is not unreasonable by comparison with the contributions which other sections of the community are called upon to make.

I am, sir,  
Your obedient servant,  
W. A. ROBINSON.

Sir Arthur Robinson, G.C.B., C.B.E.,  
Ministry of Health,  
Whitehall, S.W.1.

September 7, 1931.

DEAR SIR ARTHUR,—You will be pleased to hear that my Executive, on receipt of the report of the National Health Insurance Committee, decided to accept their recommendation that the Government's proposal, as set out in your letter of September 5, should be accepted on behalf of chemists.

Yours faithfully,  
G. A. MALLINSON,  
Secretary.

Ministry of Health,  
Whitehall, S.W.1.  
September 8, 1931.

DEAR MR. MALLINSON,—I have shown your letter of yesterday to the Minister and he desires me to ask you to convey to your Executive his very warm appreciation of their action in accepting the proposal which the present national emergency has compelled the Government to put forward.

Yours very truly,  
W. A. ROBINSON.

## Special Scottish Meeting

A SPECIAL meeting of the Pharmaceutical Standing Committee (Scotland), called on short notice, was held in the Pharmaceutical Society's House, 36 York Place, Edinburgh, on September 4, Mr. J. B. McVitae in the chair.

It was explained that, owing to the National financial crisis, the Department of Health for Scotland had arranged an emergency meeting with the Committee to consider proposed economies in National Health Insurance. After a full discussion of the situation the meeting adjourned and proceeded to the office of the Department of Health, where they were met by Sir Archibald Sinclair, M.P., Secretary of State for Scotland, and the Departmental staff. The Secretary of State for Scotland made a statement as to the difficult position of the national finances, the imperative necessity for balancing the Budget, which the National Government had been appointed to carry out, and the extreme urgency of coming to a decision, which it was their desire to intimate immediately to the Government, so that matters might be in form for the meeting of Parliament. He mentioned that there had been a meeting with the panel chemists for England and Wales in London on the previous day, at which agreement had been reached, under which panel chemists had consented to accept a deduction of 10 per cent. from the dispensing fee and establishment charge, but exclusive of the cost of material.

Mr. McVitae (chairman of the Standing Committee) said panel chemists thoroughly realised the financial difficulty and the necessity for some effective action being taken. So far as panel chemists in Scotland were concerned, they had always managed to keep within the available funds and had not required to have any financial concessions, and they also felt that their remuneration was on a very moderate scale indeed. Anything they might agree to would, therefore, be regarded as making a sacrifice in loyal response to the demand of the National Government to meet the obligation of balancing the budget. After a very full conference, and in view of the urgency, the Standing Committee unanimously agreed to a proposal that, on account of the financial position of the country, and on that account alone, the amounts payable to Scottish insurance chemists should be made subject to a deduction of 7 per cent. from their accounts and that the payment to the Exchequer of the sum realised by this deduction should be secured by legislation. In view of the extreme urgency of the situation, the reduction, it was agreed, would take effect from

October 1. It was to be clearly understood that the deduction was not based upon any consideration of the justification or otherwise for the present remuneration of insurance chemists on its merits, but was due to the financial position of the country. It was also understood that comparable contributions to the needs of the Exchequer should, so far as practicable, be secured from other bodies or persons concerned with the administration of the National Health Insurance Acts. The method of remuneration, under the agreements with Scottish panel chemists, differed from the method in use in England and Wales. It was estimated, however, that the deduction of 10 per cent. from the dispensing fees and establishment charges, but excluding cost of materials, in England and Wales, would work out practically to the same proportional amount as a deduction of 7 per cent. from the whole payments made to Scottish panel chemists.

## The Economy Budget and Health Insurance

By G. A. Mallinson, Barrister-at-law

I AM grateful for the opportunity given me, through the courtesy of the Editor of THE CHEMIST AND DRUGGIST, of making a personal statement regarding the "Economy Budget cut" in the National Health Insurance Drug Fund. While I was on holiday I saw that the Labour Government was getting into difficulties and later that a National Government had been formed. I did not then realise how serious the national financial position had become, but when I found myself answering a summons by 'phone from the Ministry of Health to return and consult about economies in the Drug Fund the full significance of the crisis was brought home to me. It was obvious that the Government meant business and were going to balance the Budget; further, that no section of the community would be immune from the effects of the Government's economies and taxes.

Naturally I had to consider our position very carefully; we had apparently a very good bargaining position because of the fixed contract up to the end of 1932, but this, I saw in advance, was neutralised by the compulsory powers to override any such agreements which a National Economy Government was certain to obtain from Parliament. I realised, therefore, that we had to rely, as always, upon the merits of the case and upon the presentation of that case to the Government. In this connection a serious difficulty arose with me, just as it would have done with every thinking pharmacist. I had to decide if it was fair to press the claims of the individual against the requirements of the nation in such an emergency. I came to the conclusion that we were entitled to state our case and see that we were not unduly penalised, but that we could not place our interests before those of the nation. I am pleased to say that every member of the N.H.I. Committee (which includes representatives of the company chemists) and of the R.P.U. Executive was of the same opinion.

How far we were able, in our conversations with the Ministry, to satisfy both the Government and chemists I cannot at this moment say, but I can in all seriousness assure every chemist that the R.P.U. Executive, in meeting the Government's requirements on this occasion and showing their appreciation of the national position, acted in my opinion in a thoroughly statesmanlike manner. I am sure our prestige and position as a State Service is vastly more secure, because we were prepared to take our share of the burden which had to be placed upon every section of the State Services.

In conclusion, may I say that panel chemists will not find any change in the method of payment of their accounts. The Tariff remains the same, the monthly cheques will go out as usual and there will be no discounting unless the Drug Fund proves inade-

quate to meet the bills, including the contribution to the National Exchequer. I am satisfied that there will be no discounting this year, and if there is no serious epidemic in all probability there will be none next year.

## English Pharmacists in France

We have received from Mr. H. N. Linstead, secretary of the Pharmaceutical Society of Great Britain, a copy of a letter from the British Ambassador at Paris, in reply to an official inquiry transmitted through the courtesy of the Privy Council Office. The letter, of which the following is an abstract, deals with the conditions under which English pharmacists may secure posts in France.

Foreigners proceeding to France with a view to obtaining employment of any nature must first be in possession of a contract on a special form known as a *contrat de travail*. This must be approved by the French Ministry of Labour. Applications for the approval of such contracts must be made by the prospective employer in France to the Office Central de la Main d'Oeuvre Etrangère, 2 Avenue Rapp, Paris. If the application is granted the labour contract is returned to the prospective employer with the necessary endorsement. This contract must then be forwarded by the future employer to his prospective foreign employee, who should produce it together with his passport when he enters France.

Foreigners already resident in France who desire to obtain a worker's identity card, i.e., a permit to remain and to work in France, must apply for this card on official paper (*papier timbré*) at the Office Central de la Main d'Oeuvre Etrangère. This written application must be accompanied by (a) a questionnaire completed and signed by the applicant; (b) a certificate from the employer stating the nature of the work, the salary to be paid and the duration of the contract, which must be for at least three months and for at most one year; this certificate must be legalised by a police officer or by a local mayor and handed by the applicant to the Office Central de la Main d'Oeuvre Etrangère within a month of the date of signature by the prospective employer. British subjects and certain other foreigners who wish to be employed in France for a limited period in order to study the language have a right to special facilities in accordance with the agreement concluded in May, 1928, between the competent British and French authorities in order to facilitate the admission of student employees into the two countries.

### REGULATIONS FOR PHARMACISTS

No special qualifications are demanded in France before a foreign pharmacist may be employed unless the latter is to be the proprietor of a dispensing pharmacy. He is not allowed to take up a post of this kind unless he has studied for three years at the Ecole de Pharmacie in Paris and taken the same examinations as are required from French pharmacists of the same standing. Consequently the answer to Question (a) raised in the letter from the Privy Council Office enclosed in your despatch under reference will be as follows:—An English pharmacist who wishes to be employed temporarily in a pharmacy in France and in a subordinate position can in certain cases make use of the facilities granted in the arrangement and note of May, 1928. The answer to question (b) is that an English pharmacist who wishes to be employed permanently in a pharmacy in France can only secure this permission if he is able to circumvent the very strict policy which is now directed against the employment of foreigners in France or to plead the relevant passage of the note above quoted. He is in making this application very much at the mercy of the French authorities although he is not obliged to present evidence of any special qualifications unless he becomes the proprietor of a pharmacy. There is no special fee payable by foreigners who seek employment in France apart from the small expenses.

## Trade Notes

YEAST CAPSULES are advertised on another page by John W. Mawson & Co., Ltd., Elmcourt Road, London, S.E.27.

MATTHEWS & WILSON (1931), LTD., manufacturing chemists, 63 Cole Street, London, S.E.1, offer to supply pills and tablets in any quantity.

UZIT MANUFACTURING CO., 8 St. Helens Square, York, announce that national advertising in connection with Uzit ointment will commence on October 18.

FINDLAY SOLVENT, which is recommended as a cure for corns, warts and hard skin, is obtainable from Violiv Manufacturing Co. (1928), Edinburgh.

SANAPHOS.—Sanaphos, Ltd., 140 Cambridge Road, London, E.1, announce an extensive advertising campaign for Sanaphos; this publicity is to commence immediately.

A. & F. PEARS, LTD., Isleworth, Middlesex, make an interesting announcement elsewhere in this issue regarding wholesale and retail prices of their transparent and Golden Glory soaps.

PASTILLES.—Warrick Brothers, Ltd., Nile Street, City Road, London, N.1, are supplying a free show jar and a supply of 2-oz. cartons on certain orders for pastilles. On larger orders there is an attractive display screen available. Further particulars and samples of the company's popular winter lines will be sent on application.

STOCKTAKING.—Thomas Tyrer & Co., Ltd., Stirling Chemical Works, Stratford, London, E.15, inform us that they will be stocktaking on and after Saturday, September 26, and that it may be necessary to close the office and warehouse entirely one day (except for the

execution of the most urgent orders), viz., Wednesday, September 30.

BOVAL FLOOR GLOSS.—James Woolley, Sons & Co., Ltd., Victoria Bridge, Manchester, remind chemists that with the advent of the longer nights comes the demand for a polish which will render a floor fit for dancing. Boval Floor Gloss, which is supplied in sprinkler-top containers, not only answers this purpose, but it does so without creating dust.

ALMANACS.—James Townsend & Sons, Little Queen Street, Exeter, and Farringdon Street, London, E.C.4, have sent us specimens of an almanac suitable for chemists to send to their customers. The almanac is of the hanging type with the chemist's name and address printed on stiff card at the top. One month is accommodated on a page, and there is also a picture of a well-known view. A sample almanac will be sent to any chemist interested.

CALENDARS AND CHRISTMAS CARDS.—We have received from Raphael Tuck & Sons, Ltd., Raphael House, Moorfields, London, E.C.2, a representative selection of their new calendars, Christmas cards, gift books for boys and girls, picture postcards and other stationery for the coming season. Over 3,000 distinct designs of Christmas cards are available, offering a multiplicity of styles and subjects, including replicas of the Royal Christmas cards. The originality displayed in the many styles of calendars is also particularly striking, while the variety in the designs of the various new series of Christmas cards, several of which, the "Jewel" and "Pot Pourri," for instance, are each enclosed in an attractive cardboard box, is really remarkable. The perfection of reproduction shown in the various products bears witness to the high standard maintained by the "World's Art Service."

## Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1931, p. 345.

(From "The Trade Marks Journal," August 26, 1931.)

- "IODALPHINE"; for chemicals, etc. (2) and medicinal chemicals (3). By Oppenheimer, Son & Co., Ltd., Handforth Laboratories, Clapham Road, London, S.W.9. 524,084/5. (Associated.)
- "PERVITOL"; for medicinal chemicals (3). By Naamlooze Vennootschap Pharmaceutische Producten Maatschappij Philips-van-Houten, Amsterdamscheweg, Weesp, Holland. 524,138.
- "BONJEST"; for medicines (3). By Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool. 520,979.
- "IODOFAX"; for medicinal chemicals (3). By Frank H. Ledsham, 78 Hearnville Road, Balham, S.W.12. 524,429.
- "MALTOMA"; for a malt beverage preparation (3). By Charles W. Hopkins, 35 Balmoral Gardens, West Ealing, W.13. 523,360. (Associated.)
- "VERIPYRIN"; for a medicinal tablet (3). By Taylors' Drug Co., Ltd., 347 to 359 Burley Hill, Leeds. 524,545.
- "PALODENT"; for toothpaste (48). By W. Galloway, 39 Morley Street, Bradford, Yorkshire. 518,091.
- "SCRUBB'S"; for ammonia toilet preparations and soap (48). By Scrubb & Co., Ltd., 5 Glasshouse Street, Lambeth, London, S.E.11. 523,554. (Associated.)
- "CRESCENT"; including a crescent and design within a crescent ("C" or "CC" disclaimed); for eyelash and hair restorer preparations (48). By William E. C. Cowie, 4 Woodlands Road, London, S.W.13. 521,815.
- "FLOZOR"; for all goods (48). By Joseph Lesquendieu, 5 Bis Rue de la Tacherie, Paris, France. 523,028.

"A ROSEDENE PREPARATION" for perfumery, etc. (48). By R. Hovenden & Sons, Ltd., 29-33 Berners Street, London, W.1. 524,236.

(From "The Trade Marks Journal," September 2, 1931.)

- "LISSAPON"; for chemicals (1). By British Dyestuffs Corporation, Ltd., Hexagon House, Blackley, Manchester. 524,599. (Associated.)
- "COOPER" and "COOPER'S"; for agricultural and veterinary preparations (2). By Cooper, McDougall & Robertson, Ltd., Ravens Lane, Berkhamsted. 522,931/932. (Associated.)
- "PERMITIT"; for water purifying chemicals (2). By United Water Softeners, Ltd., Aldwych House, London, W.C.2. 524,410. (Associated.)
- "ASAPA"; for chemicals (2). By Pharmaceutical Corporation, Ltd., 39 Aldersgate Street, London, E.C.1. 524,623.
- "SLIMMA REDUCING PILLS," etc., on upright label design including facsimile signature "Cl. Maréchal" ("Slimma" disclaimed); for pills (3). By C. Maréchal, 1 Place Magenta, Nice, France. 519,190.
- "MUCILIN"; for an insect-repelling preparation (3). By T. Aspinall, Ltd., Water Street, Bolton. 522,756.
- "SPÉVIN"; for medicinal chemicals (3). By Lucie Chauvin, 3 Rue de Vouillé, Paris. 523,982.
- "BOOTHMAN BANDAGE" (or name of other article) on circular design including portrait of the late J. N. Boothman ("Boothman" disclaimed); for cotton wool, bandages, etc. (11). By Jolly & Jackson, Ltd., Blackfriars House, Parsonage, Manchester, and J. N. Boothman, 20 Booth Street, Manchester. 523,652.
- "DUNILLO"; for food substances (42). By Dunhills (Pontefract), Ltd., The Liquorice Works, Hardwick View, Tanshelf, Pontefract, Yorkshire. 524,452.
- "OUTDOOR GIRL" on circle under picture of girl with golf club and panoramic picture of sports girls; for perfumery, etc. (48). By The Crystal Chemical Co., Inc., Corner of Willis Avenue and East 134th Street, New York, U.S.A. 521,863.

## Marriages

EADIE—DOBSON.—At Montrose Street E.U. Church, Glasgow, on September 12, John Eadie, chemist and druggist, to Annie Laurance Rattray Dobson.

FAWCETT—LEWIS.—At Wesleyan Church, Fleetwood, on September 9, Richard H. Fawcett, chemist and druggist, Kirkby Stephen, Penrith, to Kathleen Lewis.

HENDRY—MILNE.—At the Royal Arch Halls, Queen Street, Edinburgh, on September 12, Simon Percival Hendry, M.R.C.V.S., elder son of Mr. Simon Hendry, chemist and druggist, Ness Bank, Inverness, to Rosetta Dickie, daughter of Mr. A. B. Milne, 15 Hope Park Terrace, Edinburgh.

KITCH—UDALE.—At the Church of the Good Shepherd, Chard, on August 27, Leonard Francis Kitch, chemist and druggist, to Kathleen Udale.

MICHELL—CARSWELL.—At Rosemary Street Presbyterian Church, Belfast, on September 9, James, son of the late Mr. W. G. Mitchell, Ph.C., Londonderry, to Annie Bow Carswell.

NOBLE—MUNRO-WILSON.—At the Presbyterian Church, Kingston-on-Thames, on September 5, Leslie Ewart Noble, chemist and druggist, to Jessie May Munro-Wilson.

PALMER—WADDON.—At St. Nicholas's Church, Bristol, on September 9, Arthur Charles Palmer, chemist and druggist, to Freda Olive Waddon.

RODWAY—SMITH.—At Hartington Road Congregational Church, Liverpool, on September 10, Reginald George Rodway to Winifred Ruby, daughter of Mr. A. G. Smith, Ph.C., Elm Hall Drive, Mossley Hill.

SNOW—MUNRO.—At St. Mary's Church, Lewisham, London, S.E., on September 12, Stanley Snow to Dorothy Clare (of the staff of THE CHEMIST AND DRUGGIST), only daughter of Mr. John Munro, 49 Rosenthal Road, Catford, S.E., and granddaughter of the late Mr. John Morrison Munro, Ph.C., Ladywell, S.E.

WATSON—MOLSON.—At the Parish Church, Spalding, on September 3, James Richard Knapp Watson to Clara Winifred, daughter of Mr. A. H. Molson, chemist and druggist, Spalding.

### Golden Wedding

JONES—WARREN.—At St. John the Divine, Fairfield, Liverpool, on September 15, 1881, John Jones, chemist and druggist, to Louisa Hannah Warren. Present address: "Devonia," Church Road, Wavertree.

## Deaths

DODDS.—At a nursing home, on September 7, William J. Dodds, managing director of H. B. Sleeman & Co., Ltd., Leadenhall Street, London, E.C.3, aged seventy-five. Mr. Dodds, whose connection with the drug and chemical trade extended over a period of fifty-eight years, had been connected with the above-mentioned company for over fifty, for the major portion of which he was connected with the buying and general management. He was appointed managing director in 1917.

JARVIS.—At Fern Bank, Billingshurst, Sussex, on September 6, Leonard Vickery Jarvis, The Pharmacy, High Street.

STREET.—On September 13, Spencer Street, chemist and druggist and valuer, 14 Queen Adelaide Road, Penge, London, S.E.20. Mr. Street passed the Minor examination of the Pharmaceutical Society in 1897.

TWEEN.—On September 13, Edward, elder son of Mr. R. C. Tween, chemist and druggist, Bushey, Herts, aged twenty-eight.

WELLS.—On September 11, William George Wells, chemist and druggist, Maidstone, aged seventy-one. Mr. Wells was educated at Maidstone Grammar School, and after serving his apprenticeship at a local pharmacy obtained a varied experience prior to passing the Minor examination in 1882. He opened business on his own account at New Romney, remaining there twelve years before returning to his native town in 1900, where he was engaged in retail business until his retirement a few years ago, although three years ago he entered into a partnership with his son, Mr. F. G. Wells, and took over the business of A. Stooke, Gillingham. Mr. Wells's entry into municipal affairs took place late in life; he was first returned in 1925 at a by-election, having since then been twice re-elected with an increased majority. A life-long Liberal, he was a member of both the Liberal Association and Club, the latter of which he had been chairman. He was also a Mason (Mark) and a member of the Belvedere Lodge. For many years he was secretary of the Medway Branch of the Pharmaceutical Society and the local branch of the Retail Pharmacists' Union. The funeral took place at All Saints' Church, Maidstone, on September 16, and the family mourners included his widow, sons (Frederick George and Douglas), and daughters (Marian Muriel and Dolly). Representatives of the borough council, Masonic Lodges, and various bodies with which Mr. Wells had been associated, were also present. Mr. Farrow (chairman) and Miss Dunans (secretary) represented the Medway Branch of the Pharmaceutical Society. The wreaths included those from his fellow-councillors and staff at 166 High Street, Gillingham; others were from the Medway Branch of Pharmaceutical Society, the South-West London Branch of Pharmaceutical Society, Robinson Mark Masonic Lodge, Belvedere Masonic Lodge, Maidstone Bowling Club, Mayor and Corporation of Maidstone.

## Personalities

MR. P. F. ROWSELL, member of the Council of the Pharmaceutical Society, has been re-elected chairman of Devon Insurance Committee.

NOTICE is given in the "The London Gazette" that Maurice Moise Kokia, 26 Park Crescent, Portland Place, London, W.1, medical practitioner, has assumed the name of Maurice Moise Coke by deed poll.

MR. G. C. BATHER has joined the staff of Burgoyne, Burbridges & Co., Ltd., manufacturing chemists, East Ham, London, E.6, as manager and buyer of the sundries department. Mr. Bather, who recently returned to England after several years Continental experience in an executive capacity, has a wide knowledge of home and foreign markets.

## Wills

MR. BRYAN HOLMES, Inglefield, Bentham, Yorks, chemist, who died on June 7 last, aged sixty-three, left estate of the gross value of £13,227, with net personalty £10,774.

MR. DAVID PROSSER ROBERTS, 10 Campbell Road, Croydon, Surrey, director of D. Prosser Roberts, Ltd., chemists, The Poplar Walk Pharmacy, Croydon, who died on May 15 last, left estate of the gross value of £6,421, with net personalty £6,118.

MR. JAMES WILLIAM LOFTHOUSE, of Heatherlea, Southfield, Hessle, Yorks, chairman of Messrs. Lofthouse & Saltmer, Ltd., wholesale druggists, Kingston-on-Hull, died on August 15 last, aged eighty-three, leaving property of the value of £40,952, with net personalty £39,561. He left £250 to the Hull Royal Infirmary, £250 to the Victoria Hospital for Sick Children, Hull, £125 to the Hull Seamen's and General Orphanage, £100 to the Hull and Sculcoates Dispensary.



*The*  
**CHEMIST AND DRUGGIST**  
 VOL. CXV SEPTEMBER 19, 1931 NO. 2693

### The Supplementary Budget

THE ordinary citizen cannot be expected to concern himself greatly with the question which the different schools of political thought are at present engaged in disputing over, that is, the question of how the national financial crisis has arisen. It is enough for him that the crisis is here, and of this the supplementary Budget leaves him no room for doubt. As a peace time measure this Budget is unique, and, in regard to some of its features, it would be difficult to find a precedent for them at any time in our history. Not only does it provide for the national expenditure by grant of the necessary taxes, but it makes provision also for the carrying out of certain national economies as a supplementary branch of the budgetary scheme. And even this is to be carried through in a manner unfamiliar to ordinary parliamentary procedure, since many of these economies are to be effected through the agency of Orders in Council. The House of Commons thus relaxes, if only temporarily, the power over the nation's purse which it has always so jealously guarded as its own special prerogative.

#### Income Tax and Surtax

With a prospective deficit of £74,679,000 in the current year's national balance sheet, the Chancellor proposes to raise £40,500,000 by new taxation. Of this by far the greater portion, £29,000,000, is coming from income tax and surtax. The new Budget increases the standard rate of income tax from 4s. 6d. to 5s. in the pound; at the same time it makes the following adjustments in the allowances to be granted from income:—The personal allowances of £135 to a single and £225 to a married person are to be reduced to £100 and £150 respectively; the allowances in respect of children, which at present stand at £60 for the first child and £50 for each subsequent child, are in future to be £50 and £40 respectively. The allowance granted for a housekeeper is to be reduced from £60 to £50. Further, when the net taxable income of an individual has been ascertained, the portion of it which will be charged at half the standard rate only is to be £175 instead of £250 at four-ninths of the standard rate as at present. At the same time, the Chancellor proposes to allow a deduction in the case of earned incomes of one-fifth up to a maximum of £300, instead of as now one-sixth up to a maximum of £250. A method is adopted, too, of giving industry special relief from the burden of the increase in the rate of tax. Where plant and machinery are used in earning profits assessable to income tax the allowance for wear and tear is to be increased by 10 per cent. It has been estimated that one result of these changes in the rates of allowance will be to add some 3,000,000 to the number of those now liable to income tax, that is to say, the number now paying the tax will be more than doubled.

The rates of surtax on incomes of more than £2,000, which stood at rates rising from 1s. to 7s. 6d. in the £, according to the excess of the income over £2,000, are by the new Budget increased by 10 per cent. all round.

#### Beer

The new Budget increases, as from September 11, the rate of duty on beer by 3s. the standard barrel of 36 gallons at 1055° gravity. The figure was admittedly fixed at this so as to represent an increase of 1d. a pint on beer of the average gravity and price, which can therefore be passed on to the consumer. The increase is calculated to bring in between now and March 31 next £4,500,000.

#### Tobacco

The increase in the duty on tobacco under the new Budget varies from 8d. to 11d. per lb., according to the type of tobacco; and it is expected to bring into the Exchequer between September 11, 1931, and March 31, 1932, £2,100,000.

#### Petrol

The duty on petrol, which had already been increased in April of this year by 2d. a gallon, has had an additional 2d. per gallon added to it by the supplementary Budget. This the Chancellor expects to produce £3,900,000 in the portion of the financial year still to run.

#### Entertainments

This source of revenue the Chancellor approached with manifest reluctance, and only, as he said, under the spur of national necessity. The tax, which, since its reduction by Mr. Snowden in 1924, did not apply where the charge for admission did not exceed 6d., is under the new Budget to be levied on a graduated scale from the lowest charge upwards. It is not to come into force until November 9, and is expected to produce £1,000,000 by March 31, 1932.

#### Economies

For a further £22,000,000 required to balance the national accounts for the financial year 1931-32 the Chancellor relies on economies in very many branches of national expenditure. That which has provoked most acrid criticism and opposition is the "cut" in connection with unemployment insurance, estimated to effect a saving of about £12,800,000.

#### National Health Insurance

The item in the category of economies which more especially affects chemists is the provision that as from October 1, 1931, the remuneration at present payable to insurance chemists is to be reduced by one-ninth, calculated to effect a saving in the current financial year of £50,000. The saving will, it is proposed, be applied towards meeting the expenses of Health Insurance administration, which are at present borne by the Exchequer. Under the same head comes the provision for a similar reduction from the remuneration paid to insurance doctors, which it is hoped will result in a saving of £425,000 in the current financial year.

### The Chemist's Quota

As part of the State services, chemists have been asked to accept a reduction in their payments, and we think that in arranging for a reduction in the Drug Fund, thus preventing a direct reduction in the dispensing fees, the R.P.U. Executive are to be congratulated. Chemists, like every other section subjected to these "economy cuts," should realise that the Government were in a strong position to enforce their requirements. In these circumstances the R.P.U. Executive have acted wisely in recognising that personal interests should not be allowed to interfere with those of the nation. They have so arranged matters that it is doubtful if any chemist will be aware that any contribution to the national exchequer has been made. The chemists' accounts will be calculated upon the present N.H.I. tariff and paid for as hitherto. Neither dispensing fees nor drug prices will be "cut." The only way in which the chemist may feel the effect of this contribution to the national exchequer is at the end of the year, when the Drug Fund is balanced. There may or may not be a surplus. Nothing is changed, in spite of the "cut," except the margin in the Drug Fund. Those chemists who rightly feel that the dispensing fees are low enough will, if they read the correspondence with the Ministry of Health (p. 360), realise that the chemists' position in this respect has been safeguarded by the R.P.U. Executive. It would have been easy to have adopted a *non-possimus* attitude, but if the judges, civil servants, doctors, teachers and policemen all find themselves compelled, from patriotic or other reasons to submit, what chance would chemists have of resisting, even if we could think for one moment that chemists would be so unpatriotic in a grave national crisis? The courage of the R.P.U. Executive in accepting responsibility for making the decision to co-operate with the Government is to be praised, since it has enabled arrangements to be made safeguarding the chemists' position in regard to the present fees and future contracts, as well as making the immediate sacrifice so easy to bear. We are sure that no one will regret the fact that the Drug Fund is to be raided more than Mr. Mallinson; he has, during the past three years, been working to make the present N.H.I. contracts a success. When the financial cloud came over the nation, there was every reason why he could congratulate himself—1930 had brought a surplus in the Drug Fund covering the previous three years, 1931 was showing signs of producing a similar surplus and 1932 could be faced with equanimity. That was the position he had worked for, and now he has to face again the problem of keeping the Drug Fund solvent and chemists contented.

### The Markets

THE provisions of the supplementary budget have been received in commercial quarters in a philosophical manner. The method and channels by which the additional revenue is to be raised were generally anticipated, but it is idle to pretend that the increased burden on commerce and industry is anything but a further handicap and obstacle to the long-overdue revival of trade. The spending capacity of the country is bound to be further restricted, which, together with the appeal, quite unnecessary in most cases, for stern personal economy, is bound to slow down at least our domestic trade. The question might well have been considered, as no doubt it will have to be in due course, whether it is possible for industry to exist, much less expand, with taxation at its present excessively high level. The call on industry has for some years been in accordance with the Government's requirements; they have persistently increased their demands year by year, and, apparently, little or no consideration has been given to the vital question of the effect such demands have on industry. It is impossible to say to what extent the decline in the trade of the country, both domestic and seaboard, experienced during the past three or four years is due to excessive taxation, but there is no doubt it is one of the chief reasons, and additional taxation can only aggravate the position. Abnormal imports and subnormal exports truly

reflect the inability of industry to meet world competition, and this unhappy position is the direct result of such large sums having to be provided each year. There is, however, one outstanding feature that should materially assist in bringing about a gradual improvement in trade. The stability of the nation's currency is fairly well assured for the next eighteen months. That is a matter of the utmost importance to a country that in various ways and for many products is the centre for distribution and a world clearing-house. The markets in chemicals, drugs, essential oils, etc., should be able to settle down and enjoy a period of steady trading, which may gradually develop to an all-round improvement. Despite the obvious difficulties that have to be faced, there is a definite feeling that business should now begin to move on a rather better scale. Confidence has been restored, and it is possible for commercial interests to look ahead with some certainty and to plan accordingly. So long as these two essential and basic factors are maintained this country will certainly be in a position to strive to participate in any recovery in world trade, but it is doubtful if we shall regain our former prominent position until the burden of taxation has been considerably lightened.

### Narcotic Drugs Convention

THE convention regarding limitation of manufacture of narcotic drugs, recently signed at Geneva, is a document which, if duly ratified by the powers concerned, portends further restrictive regulations affecting wholesalers and retailers. From the abstract printed on p. 367 of this issue it will be seen that the proposals include the addition of codeine and ethylmorphine to the international list of such drugs, and the abolition of the percentage limits for morphia and cocaine. A side-light on the methods by which such decisions are brought about has been afforded by a summary in "The Lancet" (5627, p. 55) of the findings of committee, consisting of four experts (selected from Great Britain, Austria, France and Germany), which was appointed to report on the therapeutic properties of diacetylmorphine and state whether it is regarded as indispensable. After a brief discussion of the physiological action of the drug, the report proceeds:—

"We feel that the dangerous nature of heroin from the social point of view overshadows its therapeutic importance."

In most of the popular organs of the lay Press, of course, everyone "feels" this or that; no one takes the trouble to go through the process of thinking. Different language, however, is expected from scientific men of accredited reputation. Almost worse than the singular pronouncement we have quoted is the fact that the comparative statistics of the prescribing of this drug in a few selected countries are entirely valueless, since they are not referable to a common standard. Further, if such statements as that on a theoretical basis the annual consumption of diacetylmorphine in Austria should be 1,930 grams, whereas it is over 5 kilos, are to be read as implying that doctors in those countries are encouraging drug addiction, they constitute a gratuitous libel on a profession that knows only too well the nuisance that drug addicts occasion to all in contact with them. Careful prescribers do not order sedative mixtures, for coughs or other common ailments, as a matter of routine. When pharmacologists begin writing at large on "the social point of view" it can only be supposed either that they have forgotten the terms of their inquiry or that they are compiling a pre-ordained thesis. The new Geneva convention, it is to be feared, will tend to intensify, rather than to remove, the unnecessary confusion between the legitimate and illegitimate use of narcotic drugs.

THE VALENTINE'S MEAT JUICE Co. has made a grant of two thousand dollars a year for a period of three years to the Medical College of Virginia, Richmond, U.S.A., for co-operative research in the basic sciences as related to medicine, dentistry, pharmacy, and nursing. The Medical College of Virginia is interested in furthering fundamental research in the sciences related to the preservation of health.

# League of Nations

## New Narcotic Drugs Convention

THE text of the convention adopted by the League of Nations Conference on the Limitation of the Manufacture of Narcotic Drugs, which opened at Geneva under the presidency of M. de Brouckère on May 27 and closed on July 13, has been issued as an annex to Vol. XI, No. 7, of the Monthly Summary of the League (price 1s., G. Allen & Unwin, Ltd.). On comparing this document, of which we give an abstract, with the summary of the draft convention printed in our issue of January 24 last (p. 98), it will be seen that the proposal to allot definite weights of narcotic drugs annually to each of the contracting powers and the attempt to fix prices have been abandoned. It is also instructive to compare the principal provisions of the convention with those of the previous convention, published in our issue of March 14, 1925 (pp. 389-392). The preamble refers to that agreement and to the international opium convention signed at the Hague on January 23, 1912.

### Chapter I—Definitions

ARTICLE 1 gives the following definitions of "the drugs," whether partly manufactured or completely refined:—

#### Group I.

##### Sub-group (a):—

(i) Morphine and its salts, including preparations made directly from raw or medicinal opium and containing more than 20 per cent. of morphine:—  
(ii) Diacetylmorphine and the other esters of morphine and their salts;

(iii) Cocaine and its salts, including preparations made direct from the coca leaf and containing more than 0.1 per cent. of cocaine, all the esters of ecgonine and their salts;

(iv) Dihydrohydroxycodeinone (of which the substance registered under the name of eucodal is a salt), dihydrocodeinone (of which the substance registered under the name of dicodide is a salt), dihydromorphinone (of which the substance registered under the name of dilaudide is a salt), acetyl-dihydrocodeinone or acetyl-demethyl-dihydrothebaine (of which the substance registered under the name of acedicone is a salt), dihydromorphine (of which the substance registered under the name of paramorfan is a salt), their esters and the salts of any of these substances and of their esters, morphine-N-oxide (registered trade name genomorphine), also the morphine-N-oxide derivatives, and the other pentavalent nitrogen morphine derivatives.

##### Sub-group (b):—

Egonine, thebaine and their salts, benzylmorphine and the other ethers of morphine and their salts, except methylmorphine (codeine), ethylmorphine and their salts.

#### Group II.

Methylmorphine (codeine), ethylmorphine and their salts.

The substances mentioned in this paragraph shall be considered as drugs even if produced by a synthetic process.

"Raw Opium" means the spontaneously coagulated juice obtained from the capsules of the *Papaver somniferum*, Linn., which has only been submitted to the necessary manipulations for packing and transport, whatever its content of morphine.

"Medicinal opium" means raw opium which has undergone the processes necessary to adapt it for medicinal use in accordance with the requirements of the national pharmacopoeia, whether in powder form or granulated or otherwise or mixed with neutral materials.

"Morphine" means the principal alkaloid of opium having the chemical formula  $C_{17}H_{21}O_3N$ .

"Diacetylmorphine" means diacetylmorphine (di-morphine, heroin) having the formula  $C_{21}H_{23}O_5N$  ( $C_{17}H_{17}(C_2H_3O_2)_2O_3N$ ).

"Coca Leaf" means the leaf of the *Erythroxylon Coca*, Lamarck, and the *Erythroxylon novogranatense*, (Morris) Heronimus, and their varieties, belonging to the family of Erythroxylaceae and the leaf of other species of this genus from which it may be found possible to extract cocaine, either directly or by chemical transformation.

"Cocaine" means methyl-benzoyl lavo-ecgonine (oc  $D_{20}^{\circ} = -16.4$  in 20 per cent. solution of chloroform), of which the formula is  $C_{17}H_{21}O_3N$ .

"Egonine" means lavo-ecgonine (oc  $D_{20}^{\circ} = -45.6$  in 5 per cent solution of water), of which the formula is  $C_{17}H_{15}O_3NH_2O$ , and all the derivatives of lavo-ecgonine which might serve industrially for its recovery.

The following drugs are defined by their chemical formulæ as set out below:—

Dihydrohydroxycodeinone	$C_{18}H_{21}O_4N$
Dihydrocodeinone	$C_{18}H_{21}O_3N$
Dihydromorphinone	$C_{17}H_{19}O_3N$
Acetyl-dihydrocodeinone	$C_{20}H_{23}O_4N$
or Acetyl-demethyl-oligo-dihydrothebaine	$(C_{18}H_{20}(C_2H_3O)O_2N)$
Dihydromorphine	$C_{17}H_{21}O_3N$
Morphine-N-oxide	$C_{17}H_{21}O_4N$
Thebaine	$C_{18}H_{21}O_3N$
Methyl-morphine (Codeine)	$C_{18}H_{21}O_3N$ ( $C_{17}H_{18}(CH_3O)O_2N$ )
Ethylmorphine	$C_{19}H_{23}O_3N$ ( $C_{17}H_{18}(C_2H_5O)O_2N$ )
Benzylmorphine	$C_{24}H_{25}O_3N$ ( $C_{17}H_{18}(C_7H_5O)O_2N$ )

Additional definitions are as follows:—

The term "manufacture" shall include any process of refining. The term "conversion" shall denote the transformation of a drug by a chemical process, with the exception of the transformation of alkaloids into their salts. When one of the drugs is converted into another of the drugs this operation shall be considered as conversion in relation to the first mentioned drugs and as manufacture in relation to the other. The term "estimates" shall denote estimates furnished in accordance with Articles 2-5 of this convention, and, unless the context otherwise requires, shall include supplementary estimates. The term "reserve stocks" in relation to any of the drugs shall denote the stocks required (i) for the normal domestic consumption of the country or territory in which they are maintained, (ii) for conversion in that country or territory, and (iii) for export. The term "Government stocks" in relation to any of the drugs shall denote stocks kept under Government control for the use of the Government and to meet exceptional circumstances. Except where the context otherwise requires, the term "export" shall be deemed to include re-export.

### Chapter II—Estimates

ARTICLE 2 makes it obligatory for each contracting party to supply annual estimates in accordance with the provisions of Article 5, to the Permanent Central Board, which shall ask for estimates from countries to which the convention does not apply. In the event of failure to furnish such estimates, whether by contracting or non-contracting parties, the Supervisory Body shall make estimates. ARTICLE 3 provides for the submission of supplementary estimates. ARTICLE 4 prescribes that every estimate furnished shall be based solely on the medical and scientific requirements of each country or territory. The contracting parties may, in addition to reserve stocks, create and maintain government stocks. ARTICLE 5 states that each estimate shall be in the form from time to time prescribed by the Permanent Central Board. Every estimate shall show for each year in respect of each of the drugs, whether

in the form of alkaloids or salts or of preparations of the alkaloids or salts:—

(a) The quantity necessary for use as such for medical and scientific needs, including the quantity required for the manufacture of preparations for the export of which export authorisations are not required, whether such preparations are intended for domestic consumption or for export;

(b) The quantity necessary for the purpose of conversion, whether for domestic consumption or for export;

(c) The amount of the reserve stocks which it is desired to maintain;

(d) The quantity required for the establishment and maintenance of any Government stocks as provided for in Article 4.

The total of the estimates for each country or territory shall consist of the sum of the amounts specified under (a) and (b) of this paragraph with the addition of any amounts which may be necessary to bring the reserve stocks and the Government stocks up to the desired level, or after deduction of any amounts by which those stocks may exceed that level. The estimates will be examined by a Supervisory Body. The Advisory Committee on the Traffic in Opium and other Dangerous Drugs of the League of Nations, the Permanent Central Board, the Health Committee of the League of Nations and the Office International d'Hygiène Publique shall each have the right to appoint one member of this body. The Secretariat of the Supervisory Body shall be provided by the Secretary-General of the League of Nations, who will ensure a close collaboration with the Permanent Central Board. The Supervisory Body may require any further information or details, except as regards requirements for Government purposes, which it may consider necessary.

### Chapter III—Limitation of Manufacture

ARTICLE 6 orders that there shall not be manufactured in any country or territory in any one year a quantity of any of the drugs greater than the total of the following quantities:—

(a) The quantity required within the limits of the estimates for that country or territory for that year for use as such for its medical and scientific needs, including the quantity required for the manufacture of preparations for the export of which export authorisations are not required, whether such preparations are intended for domestic consumption or for export;

(b) The quantity required within the limits of the estimates for that country or territory for that year for conversion, whether for domestic consumption or for export;

(c) Such quantity as may be required by that country or territory for the execution during the year of orders for export in accordance with the provisions of this convention;

(d) The quantity, if any, required by that country or territory for the purpose of maintaining the reserve stocks at the level specified in the estimates for that year;

(e) The quantity, if any, required for the purpose of maintaining the Government stocks at the level specified in the estimates for that year.

It is understood that if at the end of any year any contracting party finds that the amount manufactured exceeds the total of the amounts specified above, less any deductions made under Article 7, paragraph 1, such excess shall be deducted from the amount to be manufactured during the following year. ARTICLE 7 provides for the deduction from the total quantity of each drug permitted to be manufactured in any country or territory during any one year of:—

(i) Any amounts of that drug imported, including any returned deliveries of the drug, less quantities re-exported;

(ii) Any amounts of the drug seized and utilised as such for domestic consumption or for conversion. ARTICLE 8 deals with excess stocks. ARTICLE 9 orders that excess stocks existing at the moment when all the provisions of the convention shall have come into force shall be taken possession of by the government and released from time to time in such quantities only as may be in conformity with the present convention.

### Chapter IV—Prohibitions and Restrictions

ARTICLE 10 states that the contracting parties shall prohibit the export from their territories of diacetylmorphine, its salts and preparations containing diacetylmorphine or its salts. Nevertheless, on the receipt of a request from the government of any country in which diacetylmorphine is not manufactured, any contracting party may authorise the export to that country of such quantities of diacetylmorphine, its salts, and preparations containing diacetylmorphine or its salts, as are necessary for the medical and scientific needs of that country, provided that the request is accompanied by an import certificate and is consigned to the government department indicated in the certificate.

ARTICLE 11 orders that no trade in or manufacture for trade of any product obtained from any of the phenanthrene alkaloids of opium or from the ecgonine alkaloids of the coca leaf not in use on the date of the convention for medical or scientific purposes shall take place in any country or territory unless and until it has been ascertained to the satisfaction of the government concerned that the product in question is of medical or scientific value. In this case (unless the government determines that such product is not capable of producing addiction or of conversion into a product capable of producing addiction) the provisions of this convention shall apply. The Health Committee of the League, on receiving the prescribed notification, will, after consulting the Permanent Committee of the Office International d'Hygiène Publique, decide whether the product in question is capable of producing addiction.

ARTICLE 12 provides that no import of any of the drugs into the territories of any contracting party or export from those territories shall take place except in accordance with the provisions of this convention.

### Chapter V—Control

ARTICLE 13 has the important provision that the contracting parties shall treat solutions or dilutions of morphine or cocaine or their salts in an inert substance, liquid or solid, which contain 0.2 per cent. or less of morphine or 0.1 per cent. or less of cocaine in the same way as preparations containing more than these percentages. ARTICLE 14 states that any government which has issued an authorisation for the export of any of the drugs which are or may be included in Group I to any country or territory to which neither this convention nor the Geneva convention applies shall immediately notify the Permanent Central Board of the issue of the authorisation; provided that, if the request for export amounts to 5 kilograms or more, the authorisation shall not be issued until the government has ascertained from the Permanent Central Board that the export will not cause the estimates for the importing country or territory to be exceeded. The Permanent Central Board, if of opinion that such an excess would be caused, will take steps to control the situation. The Board shall each year prepare a statement showing in respect of each country or territory for the preceding year:—(a) the estimates in respect of each drug; (b) the amount of each drug consumed; (c) the amount of each drug manufactured; (d) the amount of each drug converted; (e) the amount of each drug imported; (f) the amount of each drug exported; (g) the amount of each drug used for the compounding of preparations, exports of which do not require export authorisation. The Board shall take all necessary measures to ensure that the statistics and other information which it receives under this convention shall not be made public in such a manner as to facilitate the operations of speculators or injure the legitimate commerce of any contracting party.

### Chapter VI—Administrative Provisions

ARTICLE 15 provides in general terms for government regulation of the drugs in each contracting country. ARTICLE 16 states that no contracting party shall allow the accumulation in the possession of any manufacturer of quantities of raw materials in excess of those required for the economic conduct of business, having regard to

the prevailing market conditions. The amounts of raw material in the possession of any manufacturer at any one time shall not exceed the amounts required by that manufacturer for manufacture during the ensuing six months unless the government, after due investigation, considers that exceptional conditions warrant the accumulation of additional amounts, but in no case shall the total quantities which may be accumulated exceed one year's supply. ARTICLE 17 orders each manufacturer to submit to his government quarterly reports giving the amount of raw materials received and other details. ARTICLE 18 deals with the drugs in Group I if they are seized in illicit traffic. In all cases diacetylmorphine shall either be destroyed or converted. ARTICLE 19 requires that the labels under which any of the drugs or preparations containing those drugs are offered for sale shall show the percentage of the drugs. These labels shall also indicate the name of the drugs as provided for in the national legislation.

### Chapter VII—General Provisions

ARTICLE 20 orders that every contracting party in any of whose territories any of the drugs is being manufactured or converted at the time when this convention comes into force, or in which he proposes either at that time or subsequently to authorise such manufacture or conversion, shall notify the Secretary-General of the League of Nations indicating whether the manufacture or conversion is for domestic needs only or also for export, the date on which such manufacture or conversion will begin, and the drugs to be manufactured or converted, as well as the names and addresses of persons or firms authorised. ARTICLE 21 provides for the communication of laws and regulations promulgated and annual reports. ARTICLE 22 requires that the Permanent Central Board be furnished with the amounts of any of the drugs used by manufacturers and wholesalers for the compounding of preparations, whether for domestic consumption or for export, for the export of which export authorisations are not required. ARTICLE 23 gives the procedure for governments in communicating to the Secretary-General particulars of important cases of illicit traffic. ARTICLE 24 links the present convention with the Hague Convention and the Geneva Convention. ARTICLE 25 lays down the course to be followed in the event of a dispute relating to the interpretation of the convention. ARTICLE 26 deals with the application of the convention to colonies, protectorates, etc. ARTICLE 27 states that the convention is open for signature until December 31, 1931. ARTICLE 28 provides for ratification. ARTICLE 29 states that the instruments of accession shall be transmitted to the Secretary-General of the League. ARTICLE 30 orders that the convention shall come into force ninety days after the Secretary-General of the League has received the ratifications or accessions of twenty-five members of the League or non-member states, including any four of the following: France, Germany, United Kingdom of Great Britain and Northern Ireland, Japan, Netherlands, Switzerland, Turkey and United States of America. ARTICLE 31 provides that ratifications or accessions received after the date of the coming into force of the convention shall take effect as from the expiration of ninety days from the date of their receipt by the Secretary-General. ARTICLE 32 gives the procedure in case of denunciation of the convention. ARTICLE 33 deals with requests for revision. ARTICLE 34 orders that the convention be registered by the Secretary-General of the League of Nations on the day of its entry into force.

### A Reservation

The Japanese Government made the following reservation which is accepted by the other contracting parties:

Crude morphine resulting from the manufacture of prepared opium in the factory of the Government-General of Formosa, and held in stock by that Government, shall not be subjected to the limitation measures provided for in this convention. Such stocks of crude morphine will only be released from time to time in such

quantities as may be required for the manufacture of refined morphine in factories licensed by the Japanese Government in accordance with the provisions of the present convention.

### Recommendations

The Conference has appended ten recommendations to the convention. The only ones of particular interest to our readers are:—

The Conference, recognising the highly dangerous character of diacetylmorphine as a drug of addiction and the possibility in most, if not all, cases of replacing it by other drugs of a less dangerous character, recommends that each government should examine in conjunction with the medical profession the possibility of abolishing or restricting its use, and should communicate the result of such examination to the Secretary-General of the League of Nations.

The Conference, considering that, subject to possible fluctuations in world requirements for medical and scientific purposes, the amounts of morphine, diacetylmorphine and cocaine manufactured for use as such during the period prior to the coming into force of the convention signed to-day should not exceed the average amount of the total world needs, based on the average medical and scientific requirements of the individual countries, and that the studies made by the Secretariat of the League . . . have resulted in an estimate of the total present world requirements of these drugs for use as such which is approximately as follows:—

	Tons
Morphine .. .. .. ..	9
Diacetylmorphine .. .. .. ..	2
Cocaine .. .. .. ..	5½

requests the Council of the League of Nations to instruct the Secretary-General to draw the attention of the members of the League and the states non-members to these documents and to the present resolution, and recommends that, pending the entry into force of the convention signed to-day, the countries manufacturing these drugs shall limit the manufacture of these drugs for use as such as nearly as possible to the quantities required for domestic consumption, and export for medical and scientific purposes.

## Indian Cinchona

THE views expressed by Sir Charles McWatt, director-general of the Indian Medical Service, in a paper read at the cinchona tercentenary celebrations in England recently, have been generally endorsed in India. In view of the great interest aroused by the proceedings of the Indian Drugs Inquiry Committee, which is still recording evidence, those in India who are interested in the drug trade, including medical practitioners, feel that there is great scope in India for the extension of cinchona. As Sir Charles pointed out, India to-day produces only four per cent. of the total world's production of cinchona. Further, to supply her own needs, India should produce about 970,000 lb. of quinine, which represents about six times the amount at present consumed; so that India to provide for her own full requirements would at once have to increase her production eighteen times. In this connection a further proposal is advanced that a special deputation should be sent to Java or the Drugs Inquiry Committee should proceed there to make careful inquiries as to how plantations are started and managed in that country, what State assistance is given, and all other cognate matters.

INTERNATIONAL REGISTER OF MEDICINAL WATERS.—The Standard Measurements Committee of the International Society of Medical Hydrology has issued the first edition of its "International Register of Spas and Medicinal Waters," Section I (Headley Brothers, 109 Kingsway, London, W.C.2, 1s.). The plan of the section was outlined in the *C. & D.*, 1929, II, 577.

# Ministry of Health Report

THE annual report of the Ministry of Health (Stationery Office, 5s. net) is a publication of great importance to the nation as a whole and especially to those engaged in the many branches of health work. For the purpose of this review we have selected only those portions which directly or indirectly affect the drug trade.

## Finances of the Department

The subjects dealt with in the report fall under the main heads of public health, local government and local finance, poor law, National Health Insurance and contributory pensions; a separate portion is devoted to the work of the Welsh Board of Health. In the section dealing with the finances of the Department we notice, *inter alia*, that the National Health Insurance Funds, England and Wales (National Health Insurance Acts, 1924-28) involved expenditure amounting to £32,220,000, while the National Health Insurance Funds, grants in aid, cost £6,050,000. A sum of £335,000 is stated, however, to be recoverable from health insurance funds. The amounts received into and paid out of the National Health Insurance Funds in the year ended December 31, 1930, are shown in detail, for England and Wales, in appendices.

Under the Therapeutic Substances Act, 1925, twenty-four new licences were issued during the year, namely, eight licences to manufacture, fifteen licences to import, and one licence to import for purposes of research. A number of licences which expired during the year were renewed. The inspectors appointed by the licensing authority have carried out further inspections in this country, on the Continent, in the United States of America, and in Canada. A number of samples of therapeutic substances were submitted to test, and as a result two licences under which the substances were imported were revoked.

The report of Mr. W. A. Damon, F.I.C., chief inspector under the Alkali, etc., Works Regulation Act, 1906, has been issued separately by the Stationery Office (9d. net). Mr. Damon makes reference to trade conditions, and states that the chemical trade, although perhaps to a smaller extent than others, has found it necessary to curtail output owing to the lessened demand from the many consuming trades, practically all of which are experiencing a period of severe depression. Many manufacturers are actively pursuing a policy of reconstructing their plant in order to be in a position in due course more readily to compete with continental and other producers.

## Sale of Food and Drugs

The number of samples of food and drugs analysed during 1930 (136,515) was the highest on record, and represents an increase of 2,931 on the previous year. The percentage of samples reported as adulterated (4.8), it is satisfactory to note, is the lowest recorded. Under the heading "Preservatives" the report states that the Public Health (Preservatives, etc., in Food) Regulations were reported to have been contravened in 519 instances, which is about the same number as in 1929. Ninety-five samples contained boric acid, and ten, consisting of bacon and ham, contained sodium nitrite. Sulphur dioxide in excess of the amount permitted by the Regulations, or in articles in which its use is prohibited, salicylic acid and formaldehyde were the preservatives chiefly found in the remaining samples. The use of benzoic acid in excess of the permitted amount was reported in three instances only. Samples of vinegar to the number of 105 were reported as unsatisfactory, mostly on account of deficiency of acetic acid. Twenty-three samples were of articles described as malt vinegar, but consisting wholly or partly of non-brewed artificial vinegar.

Out of 5,697 samples of drugs examined 245 were reported against. Fourteen prescriptions were found to

have been inaccurately dispensed. Drugs which were defective included camphorated oil, sweet spirit of nitre, bicarbonate of soda, tincture of iodine, and zinc, boric, mercuric and carbolic ointments. A few samples of tincture of iodine contained an excess of iodine. In two instances where citric acid was demanded, tartaric acid was supplied. An unusual case occurred, the report states, in which so-called boric ointment proved on analysis to be a weak soap jelly. It is stated to have been packed in boxes bearing the name of a well-known firm of chemists who had no knowledge of what was being done. Proceedings were taken against the vendor and the person supplying him, and heavy fines were imposed.

## National Health Insurance

National Health Insurance and Contributory Pensions Scheme occupies approximately twenty-five pages of the report. During the year 14,700 doctors were in insurance practice in England. Medicines and appliances were supplied as part of medical benefit at about 9,000 chemists' shops. The number of insured persons entitled to medical benefit was nearly 14,500,000. Medical benefit cost over £8,862,000. Of this sum insurance doctors received over £6,447,000 in respect of their duties of attending and treating insured persons; and £1,927,700 of the balance was paid to insurance chemists for the supply of drugs and appliances. Under the arrangements referred to in last year's report by which insurance chemists accept liability for the supply of all drugs and prescribed appliances ordered for insured persons by insurance doctors, and in return receive collectively the annual sum of the Chemists' Central Fund, it was found possible, states the report, after meeting the cost of the drugs and appliances supplied by chemists in full, to pay their dispensing fees at the rate of 119.74 per cent. There was a decrease of over 6½ per cent. in the number of insurance prescriptions dispensed in 1930 as compared with 1929. The total of the chemists' accounts fell from £1,922,800 to £1,739,708. Two appeals against decisions of insurance committees by chemists were allowed; one was dismissed and money was withheld from the chemist; two were withdrawn; and two had not been decided by the end of the year.

## Welsh Board of Health

The report of the Welsh Board of Health states that the issues of funds by the Department to insurance committees for the provision of medical benefit and for defraying the expenses of administration amounted during 1930 to £579,924.

The number of prescriptions priced by the Welsh Joint Insurance (Pricing) Committee for 1930 was 2,473,423, a decrease of 59,354 on 1929. The cost of these prescriptions, priced in accordance with the drug tariff, was £82,491, as compared with £85,306 in 1929. For 1930, however, the amount available in the Chemists' Central Fund enabled an additional sum of approximately £8,550 (representing 19.74 per cent. of the dispensing fees) to be paid to the chemists. During the year under review 320 samples of medicines and sixty-one of appliances were taken under the scheme for testing dispensing. Of the 381 reports received fifty-five were referred to the Pharmaceutical Service Subcommittee with the following results:—No action considered necessary, 32; deduction from chemists' remuneration, 11; still under consideration, 12. In addition one chemist refused to divide a test medicament in accordance with the provisions of the scheme, and £1 was withheld from his remuneration. During 1930 deductions were made from the remuneration of twenty chemists for failure to dispense test prescriptions accurately and for other breaches of the terms of service.

The report concludes with statistical appendices.

# Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

## 28 Essex Street, W.C.2, September 17

DESPITE the additional burdens that have been placed on industry and commerce by the increases in taxation there is a slightly better tone and some evidence of a gradual return of confidence in the future. Business has been on a rather better scale and there is a moderate inquiry for some lines that have been neglected for many weeks. The possibility of some form of import tax is causing buyers to test the markets, and some are inclined to cover their requirements for a little ahead. In pharmaceutical chemicals business continues about up to recent average, with prices keeping fairly steady. Aspirin has been in quite good call; bromides continue competitive, but there has been no further cheapening in values. Phenolphthalein is being offered at pence below Convention rates; vanillin is gradually moving up to Convention prices, the outside parcels are no longer at cheap rates. In crude drugs some movements of interest are recorded. Desiccated coconut is steadier at better rates and business has been moving. Menthol shows a further break, the shipment market being nervous. Beeswax is cheaper on a flat market. Pepper shows a slight improvement, but is still at low rates. Ergot continues firm, with Russian scarce. Although some of the articles in this section are still dull, there has been more interest generally and a certain amount of business moving. In essential oils the chief feature is the further decline in peppermint oil. The Japanese article is again easier and the shipment market is becoming unsteady. The position of the American oil is similarly unsatisfactory, with a persistent decline in shipment offers. The Sicilian oils are tending a little easier, except lemon, and business is still disappointing in these lines. Bourbon geranium is a shade easier; spike is very steady, but business is wanted. In other directions in essential oils the volume of business has, on the whole, been limited and patchy. The fixed oils markets are still distressed, with practically all values quoted at extremely low levels, particularly linseed and palm oils. There is no material change in industrial chemicals, business continuing on limited lines.

Firmer	Easier	
Camphor	Acid oils	Menthol
Coconut (desiccated)	Bergamot oil	Orange oil
Lime oil	Castor oil	Palm oil
Pepper	Cloves	Peppermint oil (Japanese and American)
	Cotton oil	Linseed oil
	Cream of tartar	Wax (bees')

1 drug auction will be held next Thursday, September 24.

## Pharmaceutical Chemicals, etc.

THERE is a steady flow of small business and prices are generally maintained. Aspirin has been meeting with a good demand; bromides continue at low values, but business seems to be slow; phenolphthalein is at cut figures; vanillin is now very steady and business is fair.

AMIDOL shows no change; business has been on small lines: one cwt., 7s.; 56 lb., 7s. 3d.; 28 lb., 7s. 6d.; 14 lb., 7s. 11d. per lb., in 7-lb. tins.

AMIDOPYRIN is about steady, while business has remained limited: crystals, five cwt., 11s. 11d.; two cwt., 12s. 1d.; less than two cwt., 12s. 4d. per lb., with powder 1d. per lb. extra.

ASPIRIN meets with a sustained demand, business being quite good; market very steady. Home trade: ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8d.; 28 lb., 2s. 9d.; 14 lb., 2s. 10d.; 7 lb., 3s.; 1 lb., 3s. 4d. per lb. Export to Colonies and British Possessions: ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8d. per lb., f.o.b.; less than one cwt., 2s. 9d. per lb., ex works.

BENZOIC ACID (B.P.) is fairly steady and business is moving at keen prices: quantities, ex works, 1s. 9d.; spot parcels, 1s. 10d. to 1s. 11d. per lb., ex store.

BROMIDES.—There is no change in the position. The market is being raked with cheap offers, with British makers meeting all competition: ammonium, 1s. 3d. to 1s. 3d.; potassium, B.P. crystals, 1s. 2d. to 1s. 2d.; granular, 1s. 1d. to 1s. 1d.; sodium, B.P., 1s. 2d. to 1s. 3d. per lb., and slightly less for large bulk quantities.

CALCIUM LACTATE.—A fair business is moving and keen prices are being quoted for any important business: spot, 1s. 1d. to 1s. 3d. per lb., as to quantity.

CITRIC ACID (B.P. CRYSTALS) remains generally quiet, with quotations for foreign material in the region of 10d. to 10d. per lb., less 5 per cent., carriage paid. British makers quote 10d. per lb., less 5 per cent. discount.

CREAM OF TARTAR.—The market is rather easier and business is well below normal: foreign material is quoted at about 7s. per cwt., less 2½ per cent., carriage paid, for good quantities. British makers quote 7s. per cwt., less 2½ per cent. discount, for 9s. to 100 per cent.

U.K. imports for July 1931 totalled 1951 cwt., valued £7,580, compared with 2,372 cwt. (£10,759) in July 1930 and 4,260 cwt. (£19,118) in July 1929. Re-exports for July 1931 totalled 353 cwt., valued £1,507, compared with 400 cwt. (£2,387) in July 1930.

GUAIACOL CARBONATE continues steady at the controlled figures, with little outside material offering: five cwt., 5s. 3d.; two cwt., 5s. 4d.; one cwt., 5s. 6d.; less than one cwt., 5s. 7d. per lb.

HEXAMINE continues in very fair call and prices are slightly less for good bulk quantities: free-running crystals, spot, from 1s. 9d. to 1s. 10d. per lb., and less for large contracts.

METHYL SALICYLATE (B.P.)—Although prices are controlled there is keen competition for the business: one ton and over, 1s. 3d.; five cwt., 1s. 3d.; one cwt., 1s. 3d.; less than one cwt., 1s. 4d. per lb.

METHYL SULPHONAL is dull, with quoted prices barely maintained: two cwt., 12s. 7d.; one cwt., 13s.; 56 lb., 1s. 5d.; small parcels, 1s. 10d. per lb.

PHENACETIN.—Quoted values in this market are being steadily maintained, with but few outside parcels offering: crystals, ten cwt., 6s. 4d.; five cwt., 6s. 5d.; two cwt., 3s. 9d.; and less 3s. 10d. per lb., with powder 1d. per lb. extra.

PHENAZONE is very steady at Convention rates; business is rather poor: crystals, ten cwt., 6s. 4d.; five cwt., 6s. 5d.; two cwt., 6s. 7d.; and less, 6s. 8d. per lb., with powder 1d. per lb. extra.

PHENOLPHTHALEIN.—Convention prices are practically nominal, these figures being generally well discounted: ten cwt., 5s.; two cwt., 5s. 1d.; less than two cwt., 5s. 2d. per lb.; exports: ten cwt., 4s.; two cwt., 4s. 1d.; less than two cwt., 4s. 2d. per lb., f.o.b.

QUININE SULPHATE.—The price for this market is steady at 1s. 8d. per oz., carriage paid on minimum 200-oz. lots.

U.K. imports of quinine and its salts from all sources for July 1931 totalled 87,953 oz., valued £7,474, compared with 122,316 oz. (£10,720) in July 1930. U.K. exports of quinine and its salts for July 31 totalled 207,926 oz., valued £19,671, compared with 124,880 oz. (£14,212) in July 1930. Re-exports of quinine and its salts for July 1931 totalled 7,598 oz., valued £691, compared with 11,901 oz. (£1,076) in July 1930.

U.S. imports for June were 50,000 oz. from the Netherlands, valued \$17,200, and 14,000 oz. from Japan, valued \$4,990. U.S. imports of einchona bark, all shipped from the Netherlands, totalled 167,851 lb., valued \$50,024, for June 1931.

SALICYLIC ACID (B.P.)—The market is firm at home makers' prices: one ton, 1s. 5d.; ten cwt., 1s. 5d.; five cwt., 1s. 6d.; one cwt., 1s. 6d.; small parcels, up to 2s. per lb.

SALOL remains dull, but quoted values are fairly steady: crystals, two cwt., 3s. 7d.; one cwt., 3s. 9d.; 56 lb., 3s. 9d.; smaller parcels, 3s. 10d. per lb.; powder, 1d. per lb. extra.

TARTARIC ACID (B.P.) CRYSTALS.—The market is on the quiet side, with foreign material offering at about 10d. per lb., less 5 per cent., ex wharf. British makers quote 10d. per lb., less 5 per cent. discount.

**VANILLIN.**—A very fair business is being done and the limited quantity of second-hand material is quoted at very close up to Convention figures: ex guaiacol, one ton, 13s.; ten cwt., 13s. 3d.; five cwt., 13s. 6d.; three cwt., 13s. 9d.; one cwt., 14s.; 56 lb., 14s. 3d.; 28 lb., 14s. 6d.; 14 lb., 14s. 9d.; less, 15s. per lb.; ex clove oil, 14s. 6d. to 16s. 6d. per lb. as to quantity, from one ton to less than 14 lb.

### Crude Drugs, etc.

**AGAR-AGAR.**—This market has been absolutely neglected and values are quoted nominally unchanged: Kobe No. 1, 4s. spot and 4s. 0½d. c.i.f.; No. 2, 3s. 10½d. spot and 3s. 11d. c.i.f.; Yokohama, spot, 3s. 9d. and 3s. 8d. per lb. c.i.f.

U.S. imports for January-June 1931 totalled 367,802 lb., valued \$224,716, against 242,095 lb., valued \$189,967, for the same period of 1930.

**ANTIMONY** is rather steadier this week, but business is by no means brisk: Chinese crude, spot, £20; shipment, £13 5s. c.i.f.; Chinese white oxide, spot, £29, shipment, £20 10s. c.i.f.

**ASAFETIDA.**—Market is dull; quoted at 70s. to 87s. 6d. per cwt.

**BALSAMS** continue quite steady although business has been rather slow. *Tolu*, 2s. 4d. to 2s. 4½d., and dressy about 2s. 2d. per lb. Canada, 3s. 9d. to 3s. 10d. per lb., as to quantity.

**CAMPHOR** is steady and business has been rather better; Japanese, spot, slabs, 2s. 1d.; flowers, 2s. 2d.; ½ oz. tablets, 2s. 8d. per lb.; shipment, slabs, 1s. 11d.; flowers, 2s.; tablets, 2s. 6d. c.i.f.

**CARDAMOMS.**—Market has been rather quiet; bold Ceylon Mysore, 5s. to 5s. 3d.; mediums, 3s. 6d. to 4s.; small mediums, 2s. 6d. to 3s.; smalls, 2s. to 2s. 6d.; Alleppey greens, 1s. 9d. spot, shipment, 1s. 8d. c.i.f.; Bombay seeds, 2s. 10d. spot.

Landings during August, 35 cwt.; deliveries, 107 cwt. Landed during January-August 1931, 1,409 cwt.; deliveries, 1,194 cwt.; stocks at August 31, 1,356 cwt., against 1,706 cwt. a year ago, and 1,815 cwt. in August 1929.

**CASCARA SAGRADA.**—Occasional business is being done with values steady; car-load lots of new peel, 39s. to 40s. c.i.f.; one-year-old peel, spot, from 47s. 6d. per cwt.

**CHAMOMILES.**—A few deliveries have now arrived, and although the flowers are not very white this year, the quality is about up to average. Prices are steadily maintained at about 120s. for the best selected down to 95s., according to colour.

**CLOVES.**—The market has been dull and both spot and shipment positions are easier; Zanzibar, spot, 7½d.; shipment, September-November, 6d. c.i.f.; Madagascar, spot, 7½d. sellers.

The landings of Zanzibar in London during the week ended September 12 were *nil*, and the deliveries 27, leaving a stock of 647, against 507 in 1930. From January 1 to date, landings of Zanzibar have been 1,541, against 6,132 in 1930, and the deliveries 1,913, against 5,632 in 1930. Landings of Madagascar for the week ended September 12 were *nil*, and the deliveries 22, leaving a stock of 1,189, against 1,572 in 1930. Landings of Madagascar this year to date have been 2,320, against 4,924 in 1930, and the deliveries 2,037, against 3,365 in 1930.

**COCONUT (DESICCATED)** shows a good recovery on the week with the market now fairly steady and more interest being taken; spot, fine and medium, fully 18s. 6d.; shipment, halves, October-November, 17s. sellers, c.i.f.

**COD-LIVER OIL.**—Some quite good business has been booked for early winter shipment. The market is fully steady and tends to harden; finest Lofoten non-freezing medicinal oil, 113s. to 114s. per barrel, c.i.f. Spot, minimum five-barrel lots, 116s. Some brands may be slightly cheaper.

**COLCHICUM.**—The new root is not yet available. Spot stocks are cleared. Nominal price is 45s. per cwt., although prices for new crop are expected to be at lower figures.

**DAMIANA LEAVES.**—Supplies are being offered ex warehouse at 8½d. per lb.

**ERGOT.**—The firm tone of this market recently reported is fully maintained and supplies of sound quality are very limited, with nothing coming forward. Russian, spot, 1s. 4d. is the minimum; slightly wormy, 1s. 2½d. to 1s. 3d. per lb. Spanish is steady on spot at 1s. 8d. to 1s. 9½d. for old crop; shipment, a mixture of old and new crop, 1s. 11d. per lb. c.i.f.

**FENNEL SEED.**—Some new arrivals are now available and quoted at 28s. 6d. ex wharf.

**GALBANUM.**—The market is lifeless, with prices nominal at 2d. to 4d. per lb. as to quality.

**GALLS.**—Stocks are now reduced to a minimum, business is very poor; blues are nominal on spot at 82s. 6d. per cwt.

Stocks at August 31 totalled 100 cwt., against 550 cwt. in 1930 and 880 cwt. in 1929. Landings to date, 199 cwt.; deliveries, 527 cwt.

**GELATIN** is keeping fairly steady and some small business is moving; gold leaf, 2s. 1d.; silver leaf, 1s. 8d.; bronze leaf, 1s. 5d. per lb. in cwt. cases.

**GENTIAN.**—Some good dry root is offering on the spot at 29s. 6d. per cwt.

**GUM AOACIA.**—The market is keeping fairly level and there has been a restricted business; Kordofan cleaned sorts, 37s. 6d.; shipment, 34s. 6d.; natural, spot, 35s. 6d. and 32s. 6d. c.i.f.; bleached, spot, from 100s.

Landings to August 31 totalled 14,067 cwt.; deliveries, 12,558 cwt. Stocks, 6,337 cwt., against 4,859 cwt. in 1930 and 3,209 cwt. in 1929.

**HYDRASTIS.**—There has been no further decline in values, but the market is still rather neglected: spot, about 5s. 9d., and shipment, 5s. 3d. per lb. c.i.f.

**INSECT FLOWERS.**—The new crop is now available for shipment, and closed flowers are quoted at 97s. 6d. c.i.f. London.

**IPPECACUANHA.**—A fairly good business on modest lines continues to be done and the market is fully steady: Matto Grosso, spot, 6s. 3d. to 6s. 6d. per lb.; Minas, 5s. 9d. to 6s. per lb.

**MENTHOL.**—There is distinct weakness in this market, with values, especially for shipment, showing further declines; business has remained poor. Spot is in the region of 13s. 3d., and possibly less for good quantity; shipment is definitely easier, with October-December at 11s. 9d. per lb. c.i.f., and probably less taken for good-sized business.

**MERCURY.**—The market is steady, with Italian-Spanish quoted at £16 15s. per bottle, f.o.b.; spot, in fair quantities, about £16 17s. 6d.

U.K. imports for July 1931 totalled 69,796 lb., valued £15,989, compared with 183,455 lb. (£22,672) in July 1930. Re-exports during Ju'y. 1931 totalled 31,794 lb., valued £7,291, compared with 9,427 lb. (£2,817) in July 1930.

**PEPPER.**—There is a much better tone in this market and shipment offers show a slight recovery: Lampung, spot 5½d.; shipment, August-October, 4½d.; October-December, 5½d. c.i.f.; Tellicherry, spot, 6d.; shipment, September-November, 59s. c.i.f.; Alleppey, spot, 5½d.; shipment, September-November, 56s. sellers, c.i.f.; white Muntok, spot, 7½d.; August-October, 6½d.; October-December, 7d. paid, c.i.f.

**PIMENTO** is fairly steady, but the market has been distinctly quiet: spot, 2½d.; shipment, October-December, 25s. 6d. c.i.f.

**RUBBER.**—Business has been on a very limited scale and values for all positions are about unchanged: U.K. stocks show a further slight reduction to 135,802 tons, against 114,029 tons a year ago. No. 1 standard ribbed smoked sheet, sellers, spot, 2½d.; September and October, 2½d.; November and December, 2d.; January-March, 2½d.

**SAFFRON.**—The market is steadily maintained at the recent advance: prime B.P., 49s.; extra B.P., 43s. 6d.; super B.P., 42s. per lb.

**SARSAPEARILLA** is quite neglected: genuine grey Jamaica, spot, 1s. to 1s. 1d. per lb.

**SEEDS.**—**ANISE.**—Spanish, 45s., and Russian, 30s. per cwt., spot. **CANARY.**—Market firmer for shipment: Mazagan, spot 13s., and 11s. 9d. c.i.f.; Tangier, 12s. 6d. spot, 11s. 6d. c.i.f.; Kenitra, 12s. 6d. spot, 11s. c.i.f. **LINSEED.**—Mazagan now 14s. and Morocco 13s. spot. **CORIANDER.**—Quiet, no business passing; 11s. 6d. spot for ten-ton lots. **CUMIN.**—Malta, spot, 47s. 6d.; shipment, 42s. 6d. c.i.f.; Morocco, now 30s. spot and 25s. c.i.f. for prompt shipment. **FENUGREEK.**—Morocco, 13s. 6d. spot; business done. Tunisian is 16s. 6d. spot. **CARAWAY.**—Dutch on spot selling at 21s. 3d. **MUSTARD.**—Quiet, 20s. to 32s. 6d. per cwt., according to quality.

**SENEGA.**—There is no improvement in this market, values remaining at very low levels, while business is small: spot, 1s. 10d.; shipment, 1s. 6½d. per lb. c.i.f. **SENA.**—The market is about unchanged and is keeping about steady: Alexandrian, finest selected hand-picked pods, about 5s. 6d.; seconds 3s. 6d.; mediums, 1s. 9d.; ordinary manufacturing, 4½d. to 5d. per lb. as to quality. Tinnevelly, new crop, ordinary f.a.q. pods, 4d. to 4½d.; hand-picked 5½d. to 6d. per lb.

**SHELAC.**—The market shows a slight recovery on the week; business has been rather slow: TN standard orange, spot, 72s. 6d.; fine orange, 85s. to 155s.; pure button, 85s. to 90s.; for delivery, TN orange, sellers, October, 64s.;

December, 64s. 6d.; for arrival, TN orange, sellers, September-October, 61s.; October-November, 61s., c.i.f.

TRAGACANTH.—There has been a little better demand of late; arrivals of better grades continue small: No. 1 fine ribbon, £28 to £30; seconds, £24 to £26; thirds, £20 to £23; fourths, £14 to £19; thick Persian, £8 to £12.

Landings to August 31 totalled 7,079 cwt.; deliveries, 6,588 cwt. Stocks totalled 11,556 cwt., against 12,721 cwt. in 1930 and 11,534 cwt. in 1929.

WAX (VARIOUS).—These markets have been dull in all directions and unchanged, except that bees' is easier. JAPANESE, on spot, 45s.; CARNAUBA, fatty grey and chalky grey, 65s.; medium yellow, 130s.; fine yellow, 155s. per cwt., spot. CANDELILLA is steady at 60s. per cwt.; SPERMACETI, 92d. per lb., spot; PARAFFIN, 17s. 6d. to 27s. 6d. per cwt., as to melting point; CERESINE, 35s. to 80s. per cwt., as to colour and melting point; BEES', bleached, discs, £6 17s. 6d.; slabs, £6 15s.; yellow refined, £5 17s. 6d.; yellow crude, £5 per cwt., spot.

### Essential Oils

It is not possible to report any material improvement in demand, business having been on a distinctly limited scale. There is, however, a fairly good tone in some markets, while in others owing to weakness in the shipping market, conditions are far from satisfactory. Sicilian oils, with the exception of lemon, are tending easier for shipment. Japanese dementhrolised peppermint is again easier and still unsteady, and the same remarks apply to the American oil. Lime oil is scarce and much dearer; spike is keeping steady. Bourbon geranium is not maintained at former rates.

ALMOND is steady on a quiet market: genuine s.a.p., 6s. 6d. per lb.; sweet is quoted at 1s. 9d. per lb., spot.

ANISE (STAR).—The market has been distinctly quiet with values on spot and for shipment about unchanged: "Red Ship," in leads, 1s. 11d.; in tins, 1s. 10d.; in drums, 1s. 9d., spot; in leads, 1s. 8d.; in tins, 1s. 7d.; in drums, 1s. 6d., c.i.f.

BERGAMOT.—The market has been distinctly quiet this week. The shipment market is inclined to be unsteady in the region of 6s. 6d. per lb. c.i.f., and open to bids. Spot business is a matter of negotiation, and more or less nominal at 7s. to 7s. 3d. per lb.

U.S. imports during June totalled 10,322 lb., valued \$17,312, of which 9,872 lb. (\$15,409) were shipped from Italy.

BOIS DE ROSE.—There is not much business moving, but the market is about steady: Cayenne, spot, 5s. 3d., shipment, 4s. 9d. per lb. c.i.f.; Brazilian, spot, 2s. 9d., and shipment, 2s. 6d. per lb.

CARAWAY is steady with some moderate business passing: double-distilled, 6s., crude, 5s. 7d. per lb.

CASSIA is unchanged and easy, market dull: spot, 80 to 85 per cent., 3s. 1d. to 3s. 1½d. per lb.; shipment, about 2s. 8d., c.i.f.

CINNAMON LEAF is quoted at former rates on a dull market: spot, 3s. 5d. to 3s. 6d. per lb.; shipment, 2s. 9d., c.i.f.

CITRONELLA.—The market has remained dull and values are barely maintained: Java, spot, 2s. 3d., shipment, 2s. 1d., c.i.f.; Ceylon, spot, 1s. 9d., shipment, 1s. 5d. per lb., c.i.f.

EUCALYPTUS.—A fair demand is being received for which there is keen competition: 70 to 75 per cent., 1s. 1d. to 1s. 1½d.; 80 to 85 per cent., from 1s. 2d. per lb. upwards for small parcels.

GERANIUM is rather easier with Bourbon on spot at about 16s. 4d. to 16s. 6d., and shipment 15s. 6d. per lb., c.i.f.; Algerian is steady, spot, 17s. 6d.; shipment, 16s. 3d. to 16s. 6d. per lb., c.i.f.

JUNIPER BERRY (B.P.) is steady, and occasional business is being done: spot, 4s. 6d. to 5s. per lb., as to quality.

LAVENDER is steady with shipment offers maintained, but business is of small account: for shipment, French, 50 to 52 per cent., 9s. 3d.; 40 to 42 per cent., 8s. 2d.; 38 to 40 per cent., 8s.; 36 to 38 per cent., 7s. 9d.; 30 to 32 per cent., 7s. 3d. per lb., c.i.f.

LEMON.—This market is keeping steady, although the demand is still slow: Sicilian, hand-pressed, spot, 3s. 4½d. to 3s. 6d.; shipment, 3s. 3d., with the finest brands slightly higher, as much as 3s. 9d., being the minimum spot price. Machine-made, spot, 2s. 11d. to 3s., and shipment, about 2s. 10d. per lb., c.i.f.; Californian, spot, 2s., in drums.

U.S. imports during June, all shipped from Italy, totalled £2,625 lb., valued \$18,610.

LEMONGRASS is steady but quiet: spot, about 1s. 10½d.; shipment, 1s. 8d. per lb., c.i.f.

LIME.—Hand-pressed is very scarce on spot; it is doubtful if 56 lb. is available; the price now quoted is 65s. per lb. Shipment offers are not forthcoming; double-distilled, firm, from 42s. 6d. per lb.

ORANGE.—The market for Sicilian is slightly easier: spot is barely 7s. per lb. for good quantities, and shipment is on the easy side at 6s. 6d. per lb., c.i.f.; bitter orange is quoted for shipment from 5s. 3d., c.i.f., and from about 5s. 4d. to 5s. 6d. per lb. spot. Californian, spot, 3s. 5d. to 3s. 9d. per lb. as to quantity.

U.S. imports during June totalled 9,165 lb., valued \$12,191, Italy shipping 5,565 lb. (\$8,107) and Jamaica 3,500 (\$3,966).

PALMAROSA is about steady, but business is very poor: East Indian, spot, 8s. to 8s. 3d.; shipment, about 7s. 9d., c.i.f., for quantities.

PEPPERMINT.—There has been a further break in this market and the position of both American and Japanese dementhrolised is anything but steady, despite the cheapness of prices. Japanese dementhrolised is easier on spot in the region of 4s., while shipments are a good deal lower at about 3s. 9d. per lb., c.i.f., for October-December and January-March. American oil is nominal on spot in the region of 7s. 9d. to 8s. Offers from the shipment market are again easier in the region of 6s. 6d. per lb. for branded oil, c.i.f. Buyers are showing little confidence in the market, although it is difficult to see how prices can go much lower and remain there for any length of time.

ROSE.—Bulgarian new crop, own distillation, about 50s. per oz.; second quality, about 35s. per oz.; odd parcels offering at cheaper prices.

SPIKE.—Shipment offers are now being received, with the price steady from 2s. 4d. to 2s. 4½d. per lb., c.i.f.; spot is at about 2s. 8d. per lb.

WORMSEED is steady, with business dull: spot, about 12s. per lb.

The following arrivals have taken place from the countries indicated during the period September 10 to 16 inclusive: bergamot (It.) 18 cs.; cassia (Straits) 5 cs.; cinnamon (Ceylon) 1 dm. 1 cs., (U.S.) 1 cs.; citronella (Java) 23 dms., (Ceylon) 10 dms., (Ind.) 17 dms.; eucalyptus (Ausl.) 44 cs. 6 dms.; geranium (Fr.) 3 dms.; juniper berry (B.P.) (Cz.-Slov.) 1 brl.; lemon (It.) 30 cs.; lemongrass (Ind.) 26 dms.; lime (B.W.I.) 18 cs.; orange (It.) 1 cs.; orris (Fr.) 1 cs.; palmarosa (Ind.) 2 pots; patchouli (Seychelles) 20 cs.; rosemary (Span.) 4 dms.; various (Gy.) 1 dm., (Ausl.) 6 dms., (It.) 21 cs., (U.S.) 3 cs. 4 dms.; wintergreen (U.S.) 1 cs.

### Fixed Oils, etc.

DISTINCTION quiet markets are again reported, and values in some instances are barely maintained. Linseed is easier and now at extremely low figures. Palm remains dull. Olive is slack and tending easier. ACID OILS are still dull and again slightly easier: coconut and/or palm kernel, 18s. 6d.; groundnut, 16s. 6d.; soya, 14s., spot. CASTOR is about easier on quotation; business is poor: pharmaceutical, 38s.; first pressing, 34s.; second pressing, 31s. (barrels); cases, £4 per ton extra, ex mills, Hull, in not less than one-ton lots; Madras, 28s. 6d. (barrels), c.i.f.; Bombay, 28s. 6d. (drums), c.i.f. COCONUT is very slack and the market is barely maintained: deodorised, 28s. 3d. (barrels), spot; Ceylon, 28s. 6d. (drums), c.i.f. COTTON is perhaps a little steadier, but the market is not showing much life: deodorised, 25s. 6d.; common edible, 23s. 6d.; soapmaking, 22s. 6d.; crude, 20s. (barrels), spot. GROUND-NUT is about unchanged, but shows no sign of advancing: deodorised, 28s. 9d. (barrels), spot; crude, Oriental, 25s. (drums), c.i.f. LINSEED (raw, naked).—With the market very slack throughout the week, values show a sharp decline to very low levels: on spot, 13s. 3d.; September, 13s.; October-December, 13s. 3d.; January-April, 14s. 4½d. Boiled oil, spot, 15s. OLIVE continues dull but unchanged on quotation. The crop is a good one, and some reduction in prices is expected towards November: edible, 4s. 10d.; B.P., 3s. 11d. per gallon, in 40-gallon barrels. PALM.—The market is still very quiet, and some grades are again slightly easier on quotation: Lagos, 14s. 6d.; softs, 14s.; mediums, 14s.; hards, 15s. 6d.; bleached, 17s., spot. PALM KERNEL is much easier and the market is flat: deodorised, 25s. 6d.; crude, 21s., spot. RAPE is again a fraction easier on a neglected market: refined, 29s. 6d.; crude, 27s. 9d., spot. RESIN is maintained on quotation, with the market dull: B, 9s. 6d.; D, 10s.; F/G, 10s. 6d.; N, 14s. 9d.; W/G, 17s.; W/W, 18s., ex wharf. TURPENTINE has been quiet all the week, but quoted values are steady. Total London stocks, 24,625 barrels. On spot, 47s.; October-December, 38s. WOOD.—Hankow in barrels, on spot, 38s.

# Correspondence

Letters should be written on one side of the paper only. Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor.

## The New Pharmacy Bill in Saorstat Eireann

SIR,—Is Mr. C. J. Cremen (*C. & D.*, September 12, p. 350) aware that the great majority of his *confrères* have never seen a copy of the draft proposals? How can he expect a "lively interest" to be taken in a matter regarding which those immediately concerned are kept in ignorance? Why not publish the full text of the proposed Bill in *THE CHEMIST AND DRUGGIST*, or, if that is not feasible, why not furnish every member of the society with a copy?—Yours faithfully,

EDWARD O'GRADY, M.P.S.I.

Waterford.

## The Outlook for Pharmacy

SIR,—I notice references in the *C. & D.* "correspondence" to the "free gift" schemes and join whole-heartedly with the writers in their condemnation. The position of the R.P.U. and P.A.T.A. requires overhauling—long overdue. Chemists are not satisfied with either body. One need not go into details, they are so obvious. Still, looming ahead there is a prospect for chemists of absolute independence of the P.A.T.A. and, of, possibly, the R.P.U. The nationalisation of the medical and all allied services will be a matter of a few years only. Chemists will do well to look ahead and prepare for a status of which they have dreamed, but deemed incapable of realisation in their wakeful moments. Dreams will become a reality. It is up to the chemist to be ready.—Yours, etc.,

MAURICE JONES.

London, N.W.

## The Dosage of Thyroid

SIR,—The article by Mr. Thomas Maben (*C. & D.*, August 22, p. 258), and the correspondence which it entailed, has interested me very much indeed. For some time prescriptions for thyroid tablets which did not definitely state whether the fresh or desiccated gland was required, were a great source of worry to me. Latterly I invariably dispense the fresh gland tablets when such a difficulty arises, and as I consider 5 grains "fresh" the average maximum dose, I use my discretion accordingly. It is generally recognised that thyroid should be administered in small doses to start with, subsequently increasing according to the requirements of the patient. Such being the case, would it not be a fatal thing to dispense, say for a child, 1 grain desiccated tablets, when 1 grain "fresh" would be a big dose at the outset of treatment? So that I consider it always the proper thing to dispense the "fresh" tablets, except where the desiccated gland is stipulated, and the dose within reason. The action of thyroid on the heart is, of course, outside our scope, but here are my views on the matter. Some patients are able to tolerate thyroid much better than others, even when a condition of hypothyroidism does not exist to any great extent. This may be due to the heart being usually normal or it may not. However, in most cases, overdoses of thyroid give rise to a condition of hyperthyroidism, with which is usually associated the very distressing palpitation Mr. Maben has referred to. Whether this palpitation is due to the active principle or principles of the thyroid, or due to some toxic principle in the tablets which is of no medicinal value to the patient, I cannot say, but I fancy it is due to the latter (if it exists) and not to the actual condition of hyperthyroidism. This is merely a surmise on my part. Some authorities hold that the activity of the gland depends on the organic iodine content presumably existing as thyro-iodo-globulin. This substance can be manufactured synthetically, at least some manufacturing chemists claim so. Then why not test the relative merits of a standard extract of thyroid, and the

synthetic product? It would establish two very important points. (1) That the activity of the fresh or dried gland is, or is not, due to thyro-iodo-globulin. (2) That the terrible effect on the heart is, or is not, due to some toxic principle in the gland extract which is not in the synthetic product. If the tests were in favour of the synthetic product, then the obvious thing would be to make it official, and the problem of dosage would be a simple one. I only hope that in the near future this thyroid problem may be made less complex, both for the sake of the medical profession and the unfortunate people who require thyroid treatment.

Yours faithfully,  
MICHAEL J. MULREANEY, M.P.S.I.

Sligo.

## Profits and Percentages

SIR,—There have been complaints regarding the de-stamping of proprietaries. As a young pharmacist I should like to make a few remarks as to how this change affects the chemist from my point of view, and should welcome further remarks and criticism on the matter. When a customer purchased a tin of a certain proprietary he had to pay 5s. (for convenience we will assume that the manufacturers allow us 33½ per cent. on the transaction). Under these conditions we make 1s. 8d. on a sale, and the manufacturers take 3s. 4d., less the medicine stamp duty of 1s., which leaves 2s. 4d. Under the new conditions we are still allowed the same percentage of profit, 33½ per cent; on 3s. 9d. (the new reduced price) which is 1s. 3d. The manufacturers do not have to pay for a medicine stamp, so they make 2s. 6d. out of the deal, 2d. more than they did previously. Thus the manufacturers and the public gain, while the Inland Revenue and the chemists lose. Why cannot the manufacturers let the public have the benefit of the stamp, and let us have the same amount of profit as before, not a percentage? The only fair way of doing this would be for the manufacturers to have reduced their price to 4s. and still give us 1s. 8d. profit, while they take the 2s. 4d. as before. If they could afford to give us 1s. 8d. on a transaction on which they made 2s. 4d. before de-stamping they can do it now. But if manufacturers knock off the price of the medicine stamp and only give us the same percentage of profit as before we lose every time while they gain. If there is going to be a reduction in the price of a commodity the manufacturers must bear their share of the loss in profits as well as the retailers. Now, manufacturers, what are you going to do about it? Play the game!—Yours faithfully,

SIDNEY H. W. LEE.

Torquay.

## Students' Finances

SIR,—As a student of pharmacy I would like to put before you an aspect of the examination which does not seem to be appreciated by a great many pharmacists. During the past year I attended day classes in Part I Pharmacy extending over a nine months' course. The class was made up of forty members, and out of this number there were approximately six of us who went through college without financial help. In many cases students received the "dole" every week, while others received both the "dole" and a grant of £20 to £40 from the Educational Committee of their county. In Part II the same conditions prevailed. One of their lecturers told the students (in not so many words) that the following year Part II was going to be so small that each one would not get class tickets (irrespective of merit), and that some students would require to repeat the year over again. As luck would have it there will be at least two members who will have to pay for themselves again, while the other dozen get their fees and tram fares from the Educational Committee.—Yours, etc.,

MENTE (9/9).

**Wholesalers as Members of Local Associations**

SIR.—Mr. William Kirkby (*C. & D.*, September 5, p. 317) brings forward a good point when he suggests that local associations should welcome the proprietors of wholesale establishments as members. There is one thing to be borne in mind, since the branches of the Society have been established some of the local associations have died a natural death or have been wound up and incorporated in the branch, so that in those areas there would be a difficulty in asking a wholesaler to be an actual member, unless, of course, the wholesaler was a qualified chemist and a member of the Society. It would be a very good thing for both sides if more of these gentlemen were attracted to our meetings and discussions, as it would enable them to appreciate some of the difficulties under which we work. I am rather surprised to find that the last part of Mr. Kirkby's letter reads as though he had only just heard of wholesale houses catering for unqualified traders. If he lived in the South he would be painfully aware that there is little or no distinction between qualified and unqualified customers at some wholesale counters so long as the statements are settled promptly.

Yours faithfully,

QUALIFIED MEMBER (12/9).

**Pharmacy Showcards**

SIR.—The article on "Pharmacy Showcards" (*C. & D.*, September 5, p. 309) is one of those practical contributions which render the *C. & D.* such an aid to the chemist in business, but there are one or two comments which come to mind from the retailer's point of view. The waste of expensive showcards cannot all be laid to the blame of the chemist, for it will be found that many firms send out advertising matter in a wasteful manner. Another trouble which I find with some of the showcards provided by manufacturers is the flimsy and insufficient nature of the struts affixed to the back. Many of them break off as soon as they are bent into position, others are fixed in such a way that they are not centred and are quite useless as supports, and in some cases where the card is cut out to allow a carton or tin to be placed in it the cut-out is either too large or too small, in the first case leaving the packet to fall out as soon as it is upright or there is vibration from the traffic in the street, and in the second case entirely spoiling the card or the carton to get it fixed. The large threefold screen type of showcard is really of little use to the small chemist. The provision of cards for his own goods is always somewhat of a problem to the individual chemist. To get good ones printed to his own ideas and design means that they are expensive, and if he decides to incur the expense he cannot afford to have new ones done every time, but must use them several times over, and they become hackneyed. In this respect I have noted that the drapers always seem to have fresh cards for every line displayed. Do they employ a writer of their own, or an assistant who can do them properly on request, or do they also get a supply from the manufacturer?—Yours, etc.,

CARDITE (12/9).

**Price Maintenance**

SIR.—Mr. J. Milner (*C. & D.*, September 5, p. 308) is fully justified in the pleasure he expresses at the findings of the Committee on Restraint of Trade, and I fail to see why anyone should call him biased because he can see nothing in the working of the P.A.T.A. which is prejudicial to the public. As a retailer perhaps I should be told that I am tarred with the same brush, but as a customer I much prefer to know the price I am going to pay for an article, and strongly object to being asked different prices for the same article in different shops. Such bargaining may suit the Oriental mind, but it would never work here, and that is what it might come to if there were no minimum retail price arrangements. I can go back to the days Mr. Milner refers to, when patents were cut to such an extent that some of them were sold below the actual cost, and I well remember that in the early

days of my apprenticeship I brought severe criticism on my head because in my ignorance I had promptly produced one of these losing lines to a customer when we had a pack of our own, and it was a lecture I have never forgotten. Needless to say I am a subscriber to the P.A.T.A., and have been for many years, but although Mr. Milner's advice in this respect does not apply to me I do strongly endorse his contention that after the findings of the Committee every chemist in business should become a member, and, what is more, take his share in bringing forward any breaches of the m.r.p. to the notice of the Executive, who will now be able to deal with them effectually.

Yours faithfully,

OLD PATA (12/9).

**Supplies for Welfare Clinics**

SIR.—There are many anomalies in local administration which call for a remedy. One of the glaring injustices which you have been good enough to expose in the *C. & D.* is the abuses of child welfare clinics. Chemists can no longer complacently allow these abuses to continue, yet as ratepayers we are compelled to support institutions which are undoubtedly depriving us of much legitimate business. Surely the time has come when our various trade organisations should take this menace in hand in the interests of pharmacy as a whole. Might I suggest that the Ministry of Health, and the Scottish Board of Health have the matter placed before them. It would be quite an easy matter for local health authorities to supply necessitous cases with vouchers for invalid foods, insulin, serums, etc., which local chemists would supply at the same rates as the clinics do at present. Manufacturing firms should be required to supply chemists with the same packs and at the same prices as they at present supply clinics. Such an arrangement would be only justice to chemists as ratepayers, and would give the clinic authorities more time to devote to the care of mothers and babies, besides effecting very considerable national economy through acting as a safeguard against supplying non-necessitous persons.—Yours faithfully,

JUSTICE (15/9).

**Pharmacy in Nigeria**

SIR.—The article under the above title contained in the annual special issue of the *C. & D.* (June 27) does little or no credit to the author, and has only served to put pharmacy in Nigeria in a very bad light. Mr. Findlay did not live in Nigeria, or rather Lagos, for more than a period of two years. If he had been writing a humorous article one would perhaps have found it possible to forgive his base misstatements of facts. But, unfortunately, his was not a humorous article, and therefore one finds it impossible to reconcile Mr. Findlay's perversion of facts to what are the actual truths. From that article one would naturally infer that the firm which he represented have engaged a lot of incompetents to operate a pharmacy large enough to yield a profit sufficient to pay salaries of £900 per annum, more or less, without considering other overhead charges; and that, besides, the natives who patronise this pharmacy are all dishonest and all lazy. But the grossest of these misstatements was that the native dispenser could not be persuaded to take pride in his work, and that except under strict supervision, he was always sending out work in a slovenly manner. Mr. Findlay cannot deny any knowledge of the fact that there is more than one pharmacy besides his own in Lagos, staffed entirely by qualified natives, and run on up-to-date lines, one of them within 200 yards of his own establishment. If Mr. Findlay found fault with any of his staff that was an isolated case, and does not justify a wholesale vilifying of native pharmacists. As a matter of fact, a revolution has set in, and pharmacy in Nigeria is progressing on very rapid and up-to-date lines, especially as the standard of education has been raised by the government. One, therefore, has to correct questionable statements such as Mr. Findlay's, and to assert that pharmacy in Nigeria is justifying itself to be well worth the name.

Yours faithfully,

Lagos, Nigeria.

ALTERA PARS (4/8).

## Dispensing Notes and Difficulties

### An Unavoidable Precipitate

SIR.—Will you please tell me the cause of the insoluble precipitate in the following mixture:—

Sodii bromidi	gr. x.
Sodii bicarb.	gr. x.
Spt. ammon. co.	mx.
Tr. digitalis	mx.
Spt. chloroformi	mx.
Inf. gent. co.	ad 3ss.

Yours faithfully,  
P. A. J. (28/7).

[The tincture of digitalis, being an alcoholic solution of glucosides and inert ether, will precipitate some of this inert matter when mixed with water. The ammonia contained in the spirit. ammon. aromat. will also precipitate the digitonin, which would otherwise be soluble in the water. If tap water is used the lime content will be precipitated by the sodium bicarbonate as carbonate. The oils of the spirit. ammon. aromat. will separate out also. Hence it will be seen that it will be impossible to send this mixture out as a clear bright mixture. To get the best result use distilled water. Dissolve the salts in the infusion, add the tincture of digitalis and spirit of chloroform mixed together, and, lastly, add the aromatic spirit of ammonia. Label it "Shake the Bottle."]

### Preventing Mould Growth

SIR.—I have a prescription as follows:—

Acidi tannici	gr. j.
Glycerin.	3j.
Aq. camph.	5iv.
Aq. dest.	ad 5j.

This always produces a mould after a period of a few days' standing. Can it be remedied? Everything is sterilised and every precaution taken.

Yours truly,  
CUINCHY (28/7).

[The mould spores are evidently in the tannic acid, and grow when moistened. Many of the common moulds are very tenacious and will grow under apparently impossible conditions. This one is either of the *Penicillium glaucum* or *Aspergillus niger* group, and shows under the microscope the characteristic mycelium and fruiting filaments. We find that if the solution is made with double-strength chloroform water and immediately filtered, the mixture keeps fairly well. It also keeps satisfactorily with 0.1 per cent. salicylic acid added. There can be no objection to using chloroform water when dispensing the preparation.]

## Legal Queries

L. G. H. (17/8).—The use of the title "photographic chemist" by an unqualified person has been held to be an infringement of the Pharmacy Act, 1868.

P. H. G. (27/7).—Since ipecacuanha wine comes within Part II of the Poisons Schedule it may only be sold by registered chemists. It is an offence for an unqualified person keeping open shop to make use of the word "druggist." If you have served a regular indentured apprenticeship to a chemist and druggist you are entitled to sell "known, admitted and approved" remedies unstamped.

C. E. D. (14/8).—Section 16 of the Pharmacy Act, 1868, provides that the executor, administrator or trustee of the estate of the deceased chemist can continue the business so long as it is conducted by a qualified assistant. The deceased chemist's widow has no such right, unless she is one of the executors. In the case of the death of a chemist who is a director of a limited company the position is different.

## Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

Alpha (8/85).—DUST-LAYING COMPOUND.—This consists of a mixture of sand and vegetable powder impregnated with strong calcium chloride solution.

C. M. (22/8).—CONFECTIONERY LIQUID.—This appears to be a solution of tartaric acid, 41.3 per cent. by weight.

A. F. B. (21/8).—BISMUTH STOMACH MIXTURE.—This is a suspension of bismuth carbonate 15 grains to the ounce of a colourless liquid which contains sodium bicarbonate 10 grains to the ounce. The odour suggests chloroform and peppermint water; no organic matter.

Tomatoes (20/8).—FERTILISER FOR TOMATO PLANT.—This is a grey granular powder of earthy appearance containing 6 per cent. moisture and yielding 41 per cent. of ash. Its composition is approximately as follows:—Ammonium sulphate, 50 per cent.; calcium superphosphate, 30 per cent.; potassium salt (probably nitrate), 20 per cent.

I. P. (10/8).—POWDER FOR RED WATER IN CATTLE.—This consists of vegetable charcoal, with a little powder which was not identified, and about 40 per cent. of tartar emetic. The ash amounts to 34.7 per cent.: moisture 2.7 per cent. There is also a small, but definite trace of chromium, and in addition the elements usually present in the ash of vegetable charcoal.

O. P. (16/8).—WATER SOFTENING.—The hardness of London water varies, but in general the temporary hardness, which it is possible to soften, is about 15 or 16 per 100,000, although it may vary up to 26. For an average sample, theory would require about 7 grains of calcium oxide (CaO) in the dissolved state for each gallon, in practice about 10 grains should be used. This is equivalent to just over 13 grains of slaked lime. However, allowing that the lime is of only moderate quality, between 20 and 30 grains of ordinary slaked lime should be stirred up with each gallon of water. There is an excellent book on this subject entitled "Rural Water Supplies and their Purification" by Sir Alexander Houston, published by John Bale, Sons & Danielsson, Ltd.

## Retrospect of Fifty Years Ago

Reprinted from  
"The Chemist and Druggist," September 15, 1881

### William West

One of the few recommendations made by this committee [of the British Association in 1831] was "that Mr. West be requested to pursue the experiments contemplated by him, into the combinations of gaseous bodies when passed through heated tubes." At this time William West was engaged in pharmacy at Leeds, and he was a very active member and one of the honorary secretaries of the Leeds Philosophical and Literary Society. . . . Mr. West was born in London in 1793, and he was for some years engaged in the establishment of Messrs. Allen, Hanbury & Co., Plough Court, which he left in 1816 to settle in Leeds. He preserved well the traditions of the school in which he had been trained, and enjoyed an extensive reputation as a sound analytical chemist, ultimately relinquishing the commercial side of his calling for the professional one. For several years he was a Fellow of the Royal Society. [From the presidential address at the York meeting of the British Pharmaceutical Conference.]



[Commenced C. & D., July 5, 1924]

**Viscum Album.**—Mistletoe, a yellowish-green, glabrous, evergreen, parasitic shrub, N.O., Loranthaceæ, found throughout Europe. The shrub is much branched, with jointed stems, opposite or 3-whorled, ovate-lanceolate leaves, and 1-seeded viscid, white berries, growing on various trees, particularly the apple, and forming a pendulous bush 2-5 ft. in diameter. The mistletoe is famous in the history of Druidical superstitions. The fresh bark and leaves have a disagreeable odour, and a nauseous, sweetish, slightly acrid and bitterish taste. Viscin, the peculiar glutinous constituent of the berries, leaves and stalks, is principally used as a birdlime. Crude viscin is obtained by kneading the finely bruised bark with water as long as anything is dissolved and removing the ligneous impurities mechanically. A better method is by boiling the crude product in strong alcohol, macerating in ether, and evaporating the ethereal extract. In 1924 Eingler, Fischer and Zeller examined the constituents of the leaves, stems and berries of the mistletoe. They found in the leaves and stems a new resin-alcohol,  $C_{15}H_{26}O_2$ , named visciresinol, decomposing at 274°—276° C. The berries contained a viscous product which after hydrolysis gave a substance possibly identical with visciresinol, a crystalline wax-alcohol melting at 71°, and an amorphous resin identical with Reinsch's viscin or viscous resin. The leaves and berries are free from tannin. The berries contain ordinary and racemic inositol, crystalline sugars found in other fruits (Tame, 1908). Mistletoe berries are said to produce vomiting and purging, and cases of poisoning have been known. This refers not only to the European shrub, but also to the berries of the American mistletoe (*Viscum flavescens*, Pursh). Probably the poisonous action is due to the volatile alkaloid,  $C_8H_7N$ , allied to coniine and nicotine, found by Leprinse in 1908. Mistletoe was formerly used in medicine, and the leaves and branches were considered a remedy for convulsive and nervous disorders. *Viscum* was at one time official in the Edinburgh Pharmacopœia; but it did not appear on trial to have any considerable medicinal power, and as far back as 1768, according to Lewis's *Materia Medica*, it had fallen into neglect. Within recent years there has been a revival of interest in the therapeutic properties of mistletoe, especially as a cardiac stimulant in menorrhagia. Gautier, in 1907, and later with Chevalier, found that an ethereal extract arrested pulmonary haemorrhage in tuberculosis, producing a fall in arterial blood pressure and acceleration of the pulse. Delassus declared mistletoe to be a useful haemostatic when given internally for pulmonary consumptive haemorrhage; he used the powder, aqueous extract, pills, syrup, and an intravenous injection, five parts representing one of the drug. The fresh plant was found by some to be more active than the dried plant. Tobler (1923) confirmed the results of previous workers in the treatment of hypertension of simple arteriosclerosis, and considered mistletoe worthy of further trial.

**Vitamin.**—A designation which has been adopted for an ill-defined group of substances essential to normal nutrition of animals. The prefix "vita," implying that it performs an essential or vital part in human metabolism, attaches a glamour to the term, which is unwarranted from a scientific standpoint, inasmuch as many other complex and simple substances (e.g., insulin and iodine) are equally necessary for maintaining the balance between the manifold chemical processes constituting either nutrition or "life" itself. The word "vitamine" was introduced in 1911 by Casimir Funk, who claimed to have isolated the "beriberi vitamine"

in a relatively pure state. It was predicted that similar nitrogenous bodies of "amine" character would be found to be responsible for other "deficiency diseases." F. Gowland Hopkins, as a result of experiments extending from 1906 to 1912, was the first to prove that "accessory factors" (now called vitamins) must be present in foodstuffs for health and weight maintenance in rats besides the proteins, fats, carbohydrates and inorganic salts comprising an otherwise satisfactory artificial diet. The next stage of differentiation was into "fat-soluble A" and "water-soluble B," the alphabetical nomenclature being indicative of the obscure chemical nature of the "accessory factors." Additional letters C, D and E were adopted respectively for antiscorbutic, antirachitic and antisterility substances. Gradually the name vitamin replaced accessory food factor, the dropping of the final "e" of vitamine signifying abandonment of the chemical character postulated by Funk. The recognition of vitamins is intimately associated with the production and cure of certain deficiency diseases which are the result of vitamin starvation or avitaminosis. The main difficulty of vitamin research is the elusive chemical nature of vitamins, which behave as if they were "activated" substances (see Vitamin D). In animal tests the only missing factor must be the vitamin in question. Chemical, physical and physiological methods are supplementing biological investigations, and in consequence the vitamin question has been greatly clarified during the last two years. The commercial importance of vitamins concerns dietetics. Medicine recognises vitamin prophylaxis as highly important, and envisages heroic treatment with vitamin concentrates of conditions due to avitaminosis. Vitamin active adjuvants (liver oils and fruit juices) have become an essential part of ante-natal and infant nutrition. Vitamin dosage is replacing treatment with drugs in anti-infective and anti-neuritic protection of city workers.

**VITAMIN CLASSIFICATION.**—The prime criterion as to what constitutes a vitamin is the production of a deficiency disease. The value of vitamins centres in the maintenance of health and vigour, and on this basis growth or weight tests are preferable in evaluating the vitamin content of foodstuffs. The enormous potency of vitamin concentrates contrasts with absence of ill effects except in cases of extreme overdosage. Yet quantitative deterioration in weight and health maintenance is a measure of vitamin insufficiency. The vital characteristic determining "vitamin" status is undoubtedly a moribund effect curable by the elusive accessory food factor, and death is inevitable in its absence. This remains true of the following vitamins:—

	Deficiency disease of specific avitaminosis	Alternative designation
Vitamin A ..	Xerophthalmia ..	Antixerophthalmic vitamin
Vitamin B ..	(See Vitamin B complex)	
Vitamin C ..	Scurvy ..	Antiscorbutic vitamin
Vitamin D ..	Rickets ..	Antirachitic vitamin
Vitamin E ..	Sterility ..	Antisterility vitamin

**VITAMIN ASSAY.**—Standard units and standard technique are being evolved for determining the vitamin content of vitamin preparations and concentrates. The necessity of a Home Office licence for animal experiments, the long period of preparation of pedigree animals and the specialisation in dietetic and pathological technique limit vitamin testing to biochemical laboratories attached to research institutions or manufacturing chemists. The laboratories of the Pharmaceutical Society of Great Britain are unique in undertaking vitamin assays for the drug trade generally.

**Vitamin Precursor or Provitamin.**—Ergosterol is an example of this type of substance, since it can be converted into vitamin D by irradiation with ultra-violet light. Carotene, which is capable of being changed by animal liver metabolism into vitamin A, is probably a provitaminic substance.

**Vitamin A.**—Osborne and Mendel in 1912 arrived at the conclusion that "a substance exerting a marked influence upon growth" is present in butter. In 1914 cod-liver oil was shown to be a potent source of this growth-promoting "fat-soluble A" factor. It was soon found that the vitamin activity is contained in the unsaponifiable portion of fish-liver oils. In 1922 the presence of



# The C&D Commercial Compendium

a ricket-preventing factor (vitamin D) was demonstrated by McCollum as an entity distinct from the anti-xerophthalmic fat-soluble factor (vitamin A). Vitamin A, despite alphabetical precedence, was the second vitamin to be discovered (*see* vitamin B). Drummond in 1924 effected a thousandfold concentration of the vitamin A potency of cod-liver oil by distillation of its cholesterol-free unsaponifiable matter *in vacuo*, most of the vitamin A passing over between 180° and 220° C. at 2-3 mm. pressure. Spectroscopic studies have this year established the following statement as the most promising criterion for vitamin A:—"A colourless or almost colourless substance exhibiting an absorption band without fine structure and absorbing maximally at 320 to 330 $\mu\mu$  in the ultra-violet region of the spectrum." This substance with Carr and Price's antimony chloride colour test for vitamin A acts as a chromogen, producing a sharp (blue) absorption band at about 583 $\mu\mu$ . Unfortunately the above colour test is only a rough guide to vitamin content, owing to a second colour-producing substance (or chromogen) being formed by ageing of oil. This disturbing material develops a band with a maximum absorption at 606 $\mu\mu$ . There is good agreement between biological assay of vitamin A and the intensities of absorption at 328 $\mu\mu$  (vitamin in ultra-violet) and 572 $\mu\mu$  (colour test blue). Vitamin A is relatively heat stable, notwithstanding 120° C. for several hours without marked loss of potency in the absence of air, but with aeration destruction of vitamin begins as low as 37° C.

Carotene can be changed into vitamin A by animals (probably in the liver, which stores the vitamin and apparently regulates distribution to other parts of the body). The discovery that carotene is a mixture of isomerides is typical of the difficulties surrounding the chemical characterisation of vitamin A, which is present in amounts so minute that direct attempts at isolation by chemical methods have been of little use. Plants appear to be able to synthesise the vitamin with the aid of sunlight, and sea plankton such as the marine diatom *Nitzchia closterium* are the ultimate origin of vitamin A in fish-liver oils. Butter, egg-yolk, animal fats, and milk are important sources of vitamin A in human dietary, but their value is variable, being in turn largely dependent upon vitamin present in vegetable diet. Thus milk from grass-fed cows is relatively "rich" in vitamin A compared with winter milk from cattle fed on hay and cottonseed cake. Spinach is the most useful vegetable source of vitamin A, being several times more potent than lettuce, brussels sprouts, green peas, etc. Carrots compare well with spinach, but nuts in general are poor as regards vitamin A content. Vitamin A activity of foodstuffs or liver-oils is preferably expressed in conventional standard units. The unit of vitamin A is defined as the amount of sufficing to support an average increase of 3 grams per week in body weight of a standard test animal when fed daily during the test period of from four to six weeks. Thus with a milk averaging 2 units per gram 0.5 gram (or 0.5 c.c.) *per diem* will maintain the average growth. Lack of vitamin A in animal diet causes little effect for some weeks, but rate of growth slows down as the animals' own stores become depleted. Cessation of growth is usually quickly followed by rapid loss of weight and the onset of a general decline in health ending in death. Deprivation of vitamin A causes a hardening or xerosis of the cornea in test animals. This xerophthalmia, which is specific for vitamin-A starvation, is a local example of general lowering of the animal's resistance to bacterial infection. There is a general recognition that a liberal supply of vitamin A increases bodily vigour, and that it is necessary to ensure a capacity for reproduction. Large doses of vitamin A in the form of concentrate from mammalian liver are being used as an "anti-infection vitamin." The object is to prevent the incidence in winter of catarrhal and pulmonary complaints, i.e., influenza and its sequelæ. The commercial sources of vitamin A are fish-liver oils and whale oils. Margarine with vitamin content equivalent to butter is a standard product. Cod-liver oil pre-

parations remain the most popular mode of medicinal vitamin A administration.

**Vitamin B Complex.**—The discovery by Eijkman in 1897 that human beri-beri and avian polyneuritis are the same nutritional disease (curable by an aqueous extract of rice polishings) was undoubtedly the origin of the conception now embodied in the term "vitamin." The curative factor has been variously designated as vitamin B, water-soluble B, antiberi-beri vitamin, and anti-neuritic vitamin. The difficulties associated with vitamin research are emphasised by the fact that more than twenty years elapsed before proof was obtained by Goldberger in 1926 of the complex character of the accessory food factor long known as "water-soluble vitamin B." It was found that a second factor, now termed vitamin B<sub>2</sub>, causes the deficiency disease known as pellagra in human beings and experimental "black tongue" of dogs. Further work during the last four years shows the existence of at least two other B vitamins. Recognition is accorded at the moment to the following B vitamins:—

	Characteristic	Discoverer	American equivalent
Vitamin B <sub>1</sub>	Antiberi-beri ..	Eijkman (1897)	Vitamin F
Vitamin B <sub>2</sub>	Pellagra preventive	Goldberger (1926)	Vitamin G
Vitamin B <sub>3</sub>	Weight maintenance of pigeon	Williams and Waterer (1927)	
Vitamin B <sub>4</sub>	Weight maintenance of rat	Reader (1929)	

The adoption of the subscripts B<sub>1</sub>, B<sub>2</sub>, etc., is a method of solving the nomenclature difficulty without calling upon further letters of the alphabet. The confusing designations "vitamin F" and "vitamin G" which have been applied in the United States to the B<sub>1</sub> and B<sub>2</sub> factors are thus rendered obsolete. The way is also left open for the recognition of other B vitamins. The discovery that the vitamin-B potency of yeast extracts and concentrates represents the combined activities of a variable mixture of vitamins explains many of the hitherto conflicting results of biological assays. Biological, chemical and physical methods are a necessary aid in differentiating between the nutritional effects of the various food factors ranking as B-type vitamins, and their place in nutrition has already become reasonably clear. Untreated foodstuffs used as sources of vitamin B are now referred to as containing a "vitamin B complex." In particular the vitaminic components are distinguishable as heat-stable or heat-labile, as well as alkali-labile. The vitamin B complex apparently consists of comparatively simple substances having basic properties and containing nitrogen. This element is regarded as being contained in either a pyrimidine or imidazole ring, but chemical considerations remain conjectural. The B vitamins are soluble in water and alcohol, but not in ether. They are dialysable, and it is on this account that they are considered as being relatively simple as regards molecular structure. Chemical investigation is hindered by vitamin "fractions" being affected to an extraordinary extent during "purification." The B vitamins are readily adsorbed upon fullers earth, silica gel, and charcoal, and it is becoming clear that differential adsorption during chemical precipitation is a prime cause of confusion in vitamin-B investigations. Crystalline preparations of vitamin B have been announced from time to time, commencing with the original "vitamine" of Funk, but attempts to confirm claims of purity provide questionable results. Funk's antiberi-beri "vitamine" proved to be nicotinic acid contaminated with the B<sub>1</sub> factor. Even with crystalline preparations of extremely high potency, the vitamin appears to be adsorbed upon the chemical. On the other hand, precipitates carrying down vitamin may be classed as "inactive" in the absence of biological tests for such vitamin. (*See* Vitamin B<sub>1</sub>.) The actual part played by vitamin B complex in animal nutrition and metabolism is as elusive as its chemical constitution. The ultimate effects of avitaminosis B are profound, and the curative results are decidedly spectacular.

(To be continued.)

# THERE ARE 2,800,631 BRITISH UNEMPLOYED

During 1930—

193,424-lbs. -	Bromides	were imported from Abroad			
100,276-lbs. -	Aspirin	"	"	"	"
45,136-lbs. -	P.B. Lactic Acid	"	"	"	"
335,602-lbs. -	Paraldehyde	"	"	"	"
17,360-lbs. -	Potass. iodid	"	"	"	"
29,470-lbs. -	Sodii salicylate	"	"	"	"
5,271-lbs. -	Thymol	"	"	"	"
45,145-lbs. -	Calcium Lactate	"	"	"	"

## CAN THIS BE STOPPED?

Can these huge foreign imports be replaced by goods made by British labour?

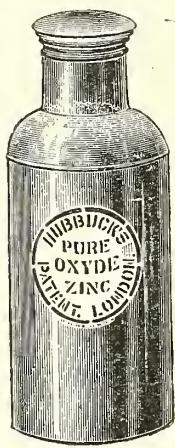
YES, perfectly easily if

The Retailer will INSIST in being supplied only with goods of British make, which he can obtain of the finest possible quality, and at strictly competitive prices, thus helping Britain in this time of crisis.

Is this too much to ask? We hope and believe not.

---

*Add "Howards" to your order and you will get British goods made by a firm with over 130 years' reputation.*



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is made by sublimation, and is warranted to contain upwards of

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BLANDFIELD WORKS : 25 CHRISTOPHER STREET : 32 & 34 VIRGINIA STREET  
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**"HYPROX" TABLETS**  
**SOLID PEROXIDE OF HYDROGEN 33% H<sub>2</sub>O<sub>2</sub>**  
*Many advantages over the liquid.*  
GREATER UTILITY, HANDINESS, NO WASTE, ACCURACY  
OF DOSE, LESS BULK, MANIFOLD USES.  
Entirely Free from Mineral Acid. Perfectly Stable for  
any period.  
SALES INCREASING. YOU WILL BE ASKED FOR THIS.  
ATTRACTIVE SHOW MATTER and PAMPHLETS  
supplied with 1-daz. Sample Bottles.  
BOTTLES 9d and 1/3 GENEROUS TRADE TERMS.  
Further Particulars and Price List of all Lines on request.  
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**DUTCH  
Sugar  
of Milk.  
"THE BEST"**  
**HOLLANDSCHE  
MELKWIJKERFABRIEK**  
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QUINIDINE  
CINCHONINE  
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Sugar-coated Quinine Tablets and Pills.

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**BANDOENG QUININE FACTORIES**

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### PHARMACEUTICAL : TECHNICAL : PHOTOGRAPHIC ESSENTIAL OILS : GELATINES

#### SPECIAL MEDICAL PREPARATIONS

Preparation	Description				Packing
<b>Angiolymphe</b> (Dr. Rous)	A combination of the Glucosides of various Iridæ advocated in the treatment of Tuberculosis.				Boxes—6 $\times$ 2½ cc. Amps. Boxes—10 $\times$ 5 cc. Amps.
<b>Asthmolyisin</b> (Dr. Weiss)	Suprarenal—Pituitary Compound.				Boxes—10 $\times$ 1 cc. Amps.
<b>Bilival</b> (Ingelheim) ..	Lecithin-Sodium-Cholate .. ..				Bottles—50 and 250 pills.
<b>Cadechol</b> (Ingelheim) ..	Camphor-Choleinic Acid .. ..				Tablets 1½ grain—Tubes of 20 Bottles of 100. Powder Bottles of ¼, ½ and 1 oz.
<b>Camphogen</b> (Ingelheim) ..	Aqueous Solution Natural Japan Camphor.				Boxes of 6 and 30 $\times$ 1 cc. Amps. 3/10 grain.
<b>Chinosol</b> (Original) ..	Antiseptic, Deodorant, Disinfectant				Boxes of 6 and 30 $\times$ 2 cc. Amps. 3/5 grain.
<b>Devatol-A</b> .. ..	Veterinary—Various strengths :— Yellow, Grey, Red.				Powder, Rods, Tablets, Dragees.
<b>Kathiolan</b> (Marcusen) ..	Danish treatment for Scabies ..				Tubes of 10 Tablets.
<b>Lobelin</b> (Ingelheim) ..	Sterile Solution <i>a</i> -Lobelin Hel. cryst.				Tins—8 oz., 2½ lb.
<b>Lysol</b> (Dega Brand) ..	German made .. .. ..				Boxes of 2, 6 and 30 $\times$ 1 cc. Amps. 1/20 grain and 3/20 grain.
<b>Necaron</b> (Ingelheim) ..	Potassium Silver Cyanide—Potassium Cholate.				Bottles—4, 8, 16, 32 oz. ½- and 1-gallon tins.
<b>Pagenstecher's Eye Lotion</b>	Original Formula .. .. ..				Powder—Bottles, ¼, ½ and 1 oz.
<b>Papain</b> (Dega Brand) ..	Digestive Ferment .. .. ..				Bottles.
<b>Pebeco</b> (Beiersdorf) .. ..	Tooth-paste .. .. .. Cold Cream .. .. .. Soap .. .. ..				Tablets, 4 grains—Bottles, 100 and 500.
<b>Pericholan</b> (Ingelheim) ..	Cadechol with Papaverin Hel. ..				Powder—Bottles, 1 and 4 oz.
<b>Posterisan</b> .. .. ..	Hæmorrhoidal Suppositories and Ointment.				Tubes.
<b>Subitol</b> .. .. ..	Ammón-Sulpho-Ichthyolate ..				Tubes.
<b>Subitine</b> .. .. ..	Medicinal Toilet Soap ..				Tablets.
<b>Terpichin</b> .. .. ..	Subitol-Glycerine Compound ..				Bottles, 3 oz. Tins, 1 lb.
<b>Zedeno</b> .. .. ..	Turpentine-Quinine-Anesthesin in Sterile Olive Oil.				Boxes—10 $\times$ 1 cc. Amp.
	Porous Sheath Bandage .. ..				Tins of 2 complete dressings.

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DURING the next few weeks there will be an extra demand for this new laxative-confection because of our participation in the British Prosperity Scheme, particulars of which are being sent to every chemist. In addition there will be strong press advertisements and sampling campaigns. Send us an order NOW—thirteen to the dozen—to be invoiced through your wholesaler, discount 25%. Bonus will be sent direct to you with show material.

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Safest Infants'  
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Does not  
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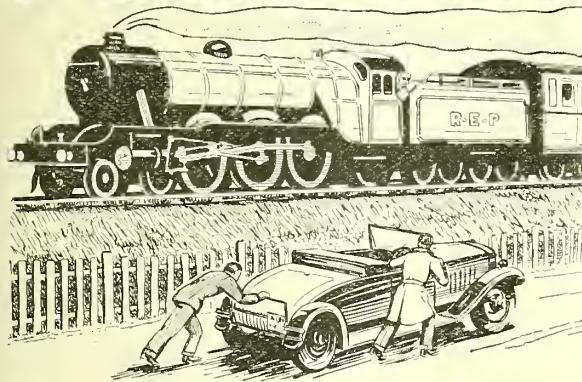
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Prices ...	11/- per doz.	30/- per doz.	5/- each	2/- each
Profit Yielded	3/6 per doz.	6/- per doz.	2/6 each	6.4 each

Special Prices upon application for 25, 210, and 225 Parcels.

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Reg. Trade Mark



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Sanaphos is a reconstructive Food, it contains nerve-restoring phosphorous compounds, but *no narcotics* and *no harmful drug*.

EXTENSIVE ADVERTISING CAMPAIGN WILL BE LAUNCHED IMMEDIATELY

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*When you have had your holidays*

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*will send you samples and prices of any of the following:*

COLD & INFLUENZA CURE 6 & 8 oz.	CHILDREN'S COUGH MIXTURE 4 oz.
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In carton sets, viz., Labels, Cartons and Showcards. Printed with your name and address and your own formula. One Gross Lots.

*Is your Poison Book or D.D.A. Register nearly full?*

*Our present issues are revised to date.*

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*Registered Trade Mark.*

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Season—1931



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SPECIALITY—Pure Veterinary Cod-Liver Oil.

Stocks always held in London.

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REGULATIONS—EXTENSIVE ADVERTISING  
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WELL ADVERTISED—EASY TO HANDLE—STEADY  
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£2 parcels are now available for either BEECHAM'S PILLS or BEECHAM'S POWDERS or assorted BEECHAM'S PILLS and BEECHAM'S POWDERS, and can be obtained direct or through wholesalers. These £2 parcels carry the usual 2½% discount and a further 5% discount for window display—carriage paid—monthly account.

**STOCK MORE — SHOW MORE — SELL MORE**  
**BEECHAM'S PILLS and BEECHAM'S POWDERS**

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BE READY TO  
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Link up now and get your full share of Uzit Sales. Big Space Advertising in the Sunday Papers will tell millions about Uzit... the Ointment for all skin diseases. A substantial and steady demand will result. Look for the first announcement on October 18th.

You can obtain Uzit through your usual wholesaler packed in attractive opal jars on P.A.T.A. terms to retail at 1/3 and 2/6. In case of difficulty write direct to the Uzit Manufacturing Co., 8 St. Helens Square, York.

**Stock up NOW!!!!**

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SELLS FREELY AND READILY.  
PAYS 50% ON OUTLAY.

An infallible remedy for

**Gout**  
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**P.A.T.A.** doz.  
4 oz. tins 1/-, 8/-  
8 oz. " 1/9, 14/-  
Bottles 2/-, 16/-

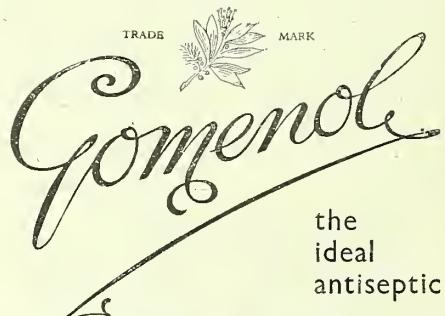
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Gomenol nasal ointment (Rhino Gomenol) is now being advertised regularly to the Medical Profession for use in cases of hay fever, bronchial and autumn colds. New to this country, Gomenol is well known to medicine on the Continent as a nasal antiseptic. Liberal discounts. Order through your wholesaler or write direct to Sole Distributing Agents, Messrs. Coates & Cooper, Ltd., 94 Clerkenwell Rd., E.C.1.



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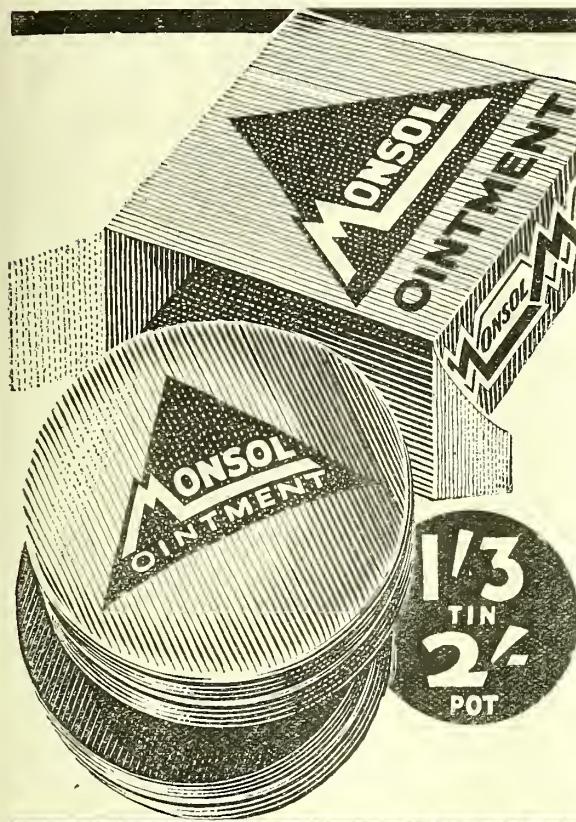
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wholesaler  
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**SHOWCARDS & DISPLAY MATTER**

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BETTER OINTMENT

★ Monsol is the most powerful of all germicides on living tissue, yet Monsol Ointment is wonderfully soothing to even inflamed surfaces. Not too soft, not too hard, it penetrates deeply through the skin, leaving a protective film inside to prevent the entry of further germs.

Doctors recommend it for RINGWORM, ECZEMA, BOILS and all skin complaints—its sale will do you credit and show a good profit. Display terms from:—

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RICH IN VITAMIN POTENCY

Per Doz.

Boxes of 25 capsules	- -	7/6
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In bulk	17/6	per 1,000 capsules

When ordering through  
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## MAWSON'S Yeast Capsules

**JOHN W. MAWSON  
and CO., LTD :: ::  
LONDON - - S.E.27**

ESTD. 1908

Important!  
Price Reduction

On September 1st,  
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### NEW PYRIDIUM PRICES

	Retail Price	Trade Price Per Dozen
Tablets (0.1 Gm.),		
Bottles of 25	6/-	54/-
Tablets (0.1 Gm.),		
Tubes of 12	3/-	27/-
Powder, 5 Gm. Bottles	12/-	108/-
Solution (1%), 100 c.c.	3.9	33.9
Ointment (10%), 25 Gm. Jars	6/6	58/6

### PYRIDIUM

Members of the Medical Profession have been suitably advised and will now expect their prescriptions to be filled at the reduced prices.

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# PURE MALT EXTRACT

with FINEST

## NORWEGIAN COD LIVER OIL

*The Brand that does not separate nor crystallize.*

*Your own name and address on labels. In English jars, etc. Direct from the actual manufacturers.*

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SAWBRIDGEWORTH. - - - HERTS.

### You take the Profit We do the Work!

You simply say, "We will get it for you." Our customers will wait. They prefer to order through their local chemist if he is willing to oblige. We cannot expect you to stock all our lines; we simply ask you to offer to obtain by return—the same as your competitor is doing.

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I pair of these unique  
**DISPLAY GLOBES**  
offered **FREE** with  
**SIMPKIN'S COUGH TABLETS**  
**THROAT, CHEST & LUNG**

Also available from

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### WE APOLOGISE FOR DELAY IN DELIVERY

The reception has  
exceeded our anticipations.

ORDERS WILL BE TAKEN IN  
STRICT ROTATION IN ABOUT  
4 WEEKS' TIME.

Write for particulars and list of  
Simpkin's Chemists' Confectionery to

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CHEMISTS' CONFECTIONERS,  
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### SIR NYNES WILL BE ASKED FOR!

If you are not a stockist of "Sir Nynes" you are missing a very profitable line. They're wonderful value and they're being **Nationally advertised**. There's always a sale for a pure confection which gives relief to the chest, throat and lungs—and "Sir Nynes" do this instantaneously.

**THE SHERWOOD**  
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**CROWDS WILL  
BE BUYING  
'ASPRO' FROM NOW ON**

Now is the time for concentrated 'ASPRO' display. Every chemist who consistently shows an 'ASPRO' window display from now on will reap a rich harvest in sales. It will connect up with the SPECIAL FEATURE SEASONAL ADVERTISING at present appearing in all the leading newspapers throughout Great Britain. The constant changes in weather conditions mean that 'ASPRO' is a necessity in all homes. This necessity becomes your gain. 'ASPRO' sales for the past month have again been a record. Let us suggest that YOU make 'ASPRO' sales from now on a record by featuring 'ASPRO' advertising matter and stickers in your window—it makes all the difference. Sometimes it means trebling your sales.

## ADVERTISING MATTER ALWAYS AVAILABLE

We still have a supply of our summer window show, stickers, etc. We will gladly send you a supply on receipt of a postcard. We also have in course of preparation an entirely new window display for the coming autumn.

By the way, do you know that YOU CAN OBTAIN 17 PER CENT. MORE PROFIT BY BUYING 'ASPRO' ON BONUS TERMS?

'ASPRO' consists of the purest Acetyl Salicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.

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Made by **ASPRO LTD., SLOUGH, ENGLAND**  
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FROM YOUR WHOLESALER TO - DAY**



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Telephone—Sloane 3461 (7 lines). Telegrams—“Dicotto, Sowest, London.”  
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## PARAFFINUM LIQUIDUM B.P. *All Specific Gravities Guaranteed to remain bright at 0°C*

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PETROLEUM JELLIES

WHITE & HALF  
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*Specialists in Liquid Paraffin*

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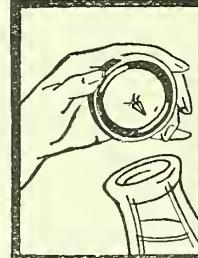
Milk COVER & Cardboard disc REMOVER

6 d.

FITS ALL SIZES.

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# CERESINE WAX

WHITE BLEACHED CARNAUBA WAX VARIOUS GRADES  
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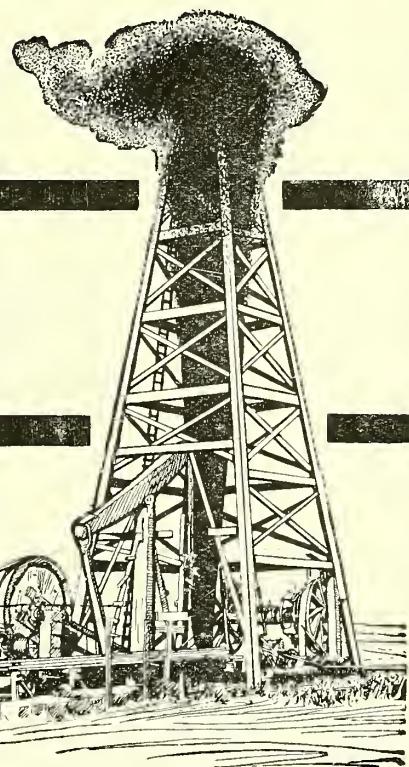
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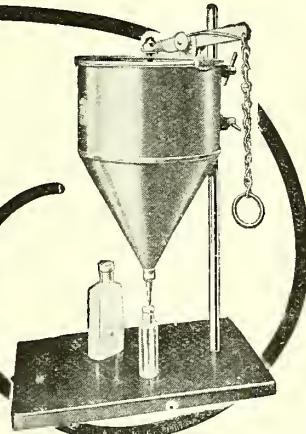
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If you are not a philanthro-  
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**INVENTORS** Small Rotary Pill Cutting Machine & Piping Press.

ASK YOUR AGENTS FOR PINDAR & CO.'S MACHINES—ORIGINAL MANUFACTURERS.

This is a Machine specially constructed for the use of Chemists or Manufacturers of small quantities of Pills. Capacity about 5 lbs. per hour. Can be used on Counter or where little space can be spared. The Piping Press and Machine occupies a space of 2 ft. by 1 ft.

These Machines make one size Pill. By means of extra Plates and Rollers any size of Pill can be made.

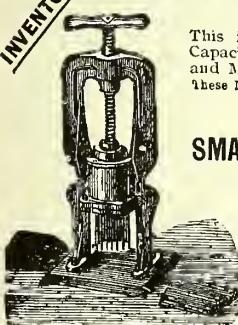
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Price, the two machines, £12.

**SMALL LEVER HAND TABLET MACHINE, 60 TO 80 PER MINUTE, £7 15**

Power Tablet Compressing Machines, Coasters, Complete Pill Plants, End Runner Mills for Ointments, Linseed Grinding Mills, Tincture Presses, Emulsifying Machines, Percolators, &c., Mixing and Kneading Machines, Drying Ovens, Hand Pill Machines.  
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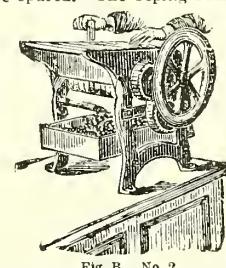


Fig. B. No. 2.  
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# Petroleum Jelly

White, Yellow, Amber,  
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Veterinary purposes

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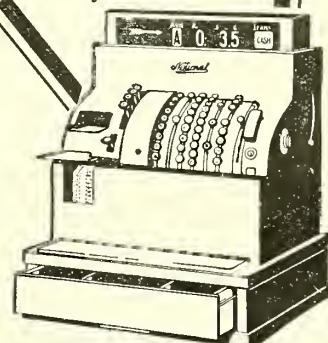
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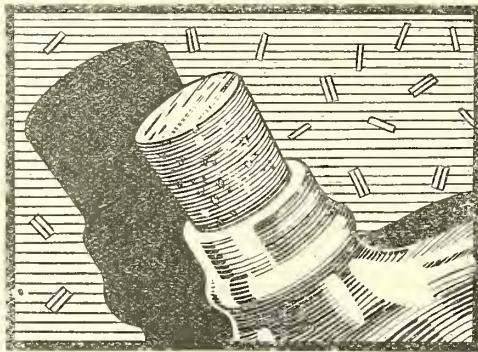
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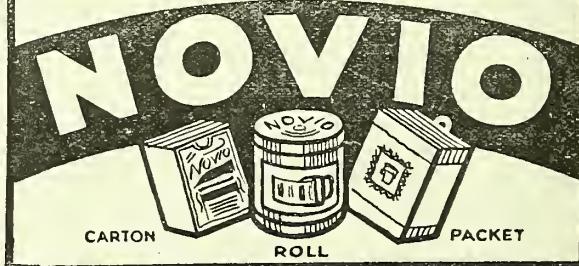
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The ORIGINAL and Most Popular

The "K." All wool in knitted cover,  
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FROM YOUR WHOLESALE HOUSE, PLEASE

**SOUTHALLS**

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## MODERN IODINE CONTAINERS

**"DROPPER BOTTLE" STYLE** in Nickelled Screw  
Cases, guaranteed leak proof.

**POISON BOTTLES**, all Styles and Colours, fitted  
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LARGE QUANTITIES IN STOCK.

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*A Customer Magnet for your window*

*Be fair to your Baby and yourself!*

Adopt the **RENDELL METHOD** Ask for this **FREE BOOK**

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If this attractive 4 plane cut-out show-card, lithographed in 10 colours, is exhibited in your window for two weeks you will qualify for a bonus of 1 dozen boxes Rendell's Pessaries. Please write for full particulars and conditions of this offer.

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*Reputation Tells!*

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The world-wide reputation of Mathers' Products is not a chance affair. A century's manufacturing experience, an efficient organisation, modern methods, and prompt service combine to guarantee a very high standard of excellence.

Mathers' Plasters are always reliable.

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Belladonna, Wintergreen and Capsicum. Poor Man's Plasters, Mustard Plasters, Mathers' Bronchial Wafers, etc., will soon be in seasonal demand.

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**"no more soiled napkins"**

Ask any mother of a young baby her worst job, and she'll tell you it's cleaning soiled napkins—spending hours at the washtub, surrounded by unpleasant odours.

What a market, therefore, for a product that does away with that bugbear of what is otherwise nature's most wonderful achievement—motherhood. Well, here is such a product, ready for you to stock and sell.

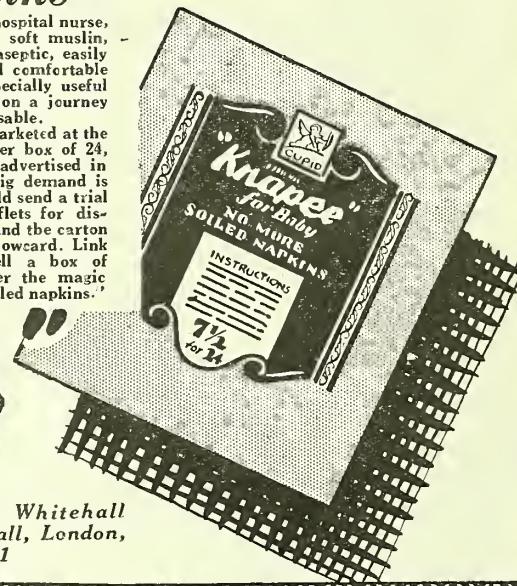
The new little "Knappee" acts as a lining to the ordinary napkin, and after use is burnt, or otherwise easily destroyed, leaving the napkin clean and only needing a rinse through—a matter of moments.

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*The inter-*  
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RELIABLE  
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*These pessaries contain no quinine or deleterious matter of any kind.*

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It is the direct link between SCHOLL Advertising and the Chemist. It is a reminder to customers which acts as the final argument in the :: :: selling story. :: ::

It is given *free* with any assorted order for Dr. Scholl's Specialities to the value of £3 10s. Make up your own order or follow the suggestion below—but get one of those Cabinets on your Counter !

### HERE IS A PROFITABLE ORDER WHICH BRINGS A PROFITABLE CABINET

*(This is only given as a suggested order which embraces all lines shown in the Cabinet itself.)*

	Cost.	Retail.	Profit.
2 doz. Zinos (1 doz. Corn, 4 packets each Soft Corn, Callous and Bunion) - - - - -	22 6	30/-	7 6
1/2 doz. Bunion Reducers (1 pair each size) - - - - -	10/-	15/-	5/-
1 doz. Bath Salts - - - - -	4/-	6/-	2/-
1 doz. Massage Cream - - - - -	4/-	6/-	2/-
2 doz. Heel Snuggers (on card) - - - - -	8/-	12/-	4/-
1/4 doz. Toe Rights - - - - -	1 11	3/-	1 1
1/2 doz. Toe Flex - - - - -	8/-	12/-	4/-
1 doz. Foot Powder - - - - -	4/-	6/-	2/-
2 doz. Tarsos (1 doz. Corn, 1/2 doz. each Callous and Bunion) - - - - -	8/-	12/-	4/-

£3 : 10 : 5   £5 : 2 : 0   £1 : 11 : 7

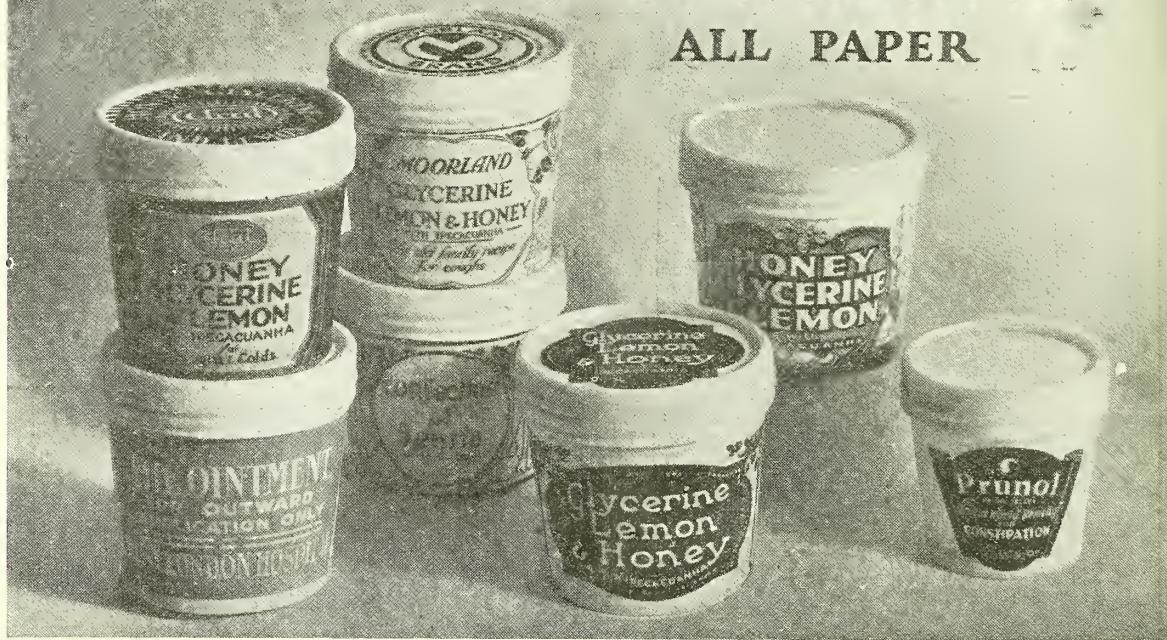
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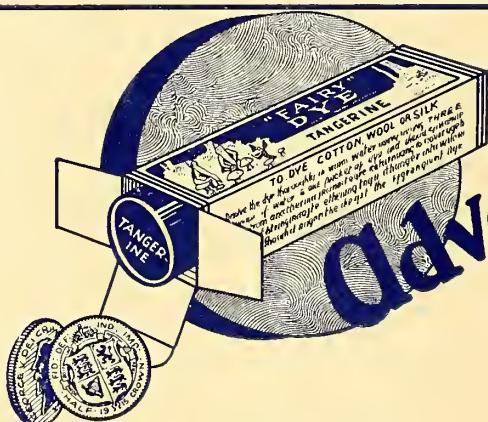
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# THE CHEMIST AND DRUGGIST



## SUPPLEMENT

28 ESSEX ST.  
LONDON, W.C.2

SEPTEMBER 19, 1931

*This Supplement is inserted in every copy of The Chemist & Druggist.*

### THE CHEMIST AND DRUGGIST SUPPLEMENT

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10.—CROYDON (Near).—Cash Retail and Dispensing Business, with Kodak Agency; returns last year, under management of a lady, £1,375; scope for increase; net profit £398 10s.; single-fronted lock-up shop; stock and fixtures worth £450; rent £1 weekly; 19½ years' lease; price to be arranged.

11.—NORTHERN SUBURB.—General Retail Business, with N.H.I.; increasing turnover, present rate £20 weekly; net profit for past twelve months £350; double-fronted shop on main road; stock worth £300 and fixtures £150; rent £52 per annum inclusive; held on lease; terms, value of stock and fixtures, plus £50 for goodwill.

12.—LONDON, S.E.—Middle-class Retail Business, with small N.H.I.; Kodak Agency and good D. & P.; returns last year £1,545; net profit 28 per cent.; single-fronted shop; stock and fixtures worth £550; rent £60 per annum; sub-let 24s. weekly; price £875; lump sum or offer.

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(C1) CENTRAL MIDLANDS.—The opportunity may shortly arise whereby a high-class retail and dispensing business with a five-figure turnover may be available for disposal; pharmacists likely to be interested are invited to write in confidence for particulars to be forwarded when available; Bankers' references required.

(C2) EAST KENT.—Easily managed business, turnover approximately £1,500 per annum; no opposition; proprietor wants to go North of England; premises built and designed by owner, also for sale, and consist of up-to-date, easily worked house, with lawn tennis court and charming garden; ideal surroundings, and well situated for lover of country; price for premises, £2,000, and for the business, including stock, fixtures and goodwill £1,500, making £3,500 in all. Personally investigated and recommended.

(C3) HAIRDRESSERS, SUNDRIES AND TOILET PREPARATIONS.—Good and easily-worked wholesale business, which did over £7,000 in 1930, for sale; turnover being maintained in 1931; gross profits £1,200; net profits £700; the business is offered out on the following approximate basis—viz., stock, £1,500; accounts, £1,260; fixtures, £150, goodwill by negotiation; freehold property for sale at £1,500, the purchase of which is optional; the business covers a very small area, and only one traveller is employed; fully investigated, and suggest scope for development and extension by the handling of lines not at present dealt with.

(C4) EASTERN COUNTY.—Old-established pharmacy for disposal on account of contemplated retirement; double-fronted premises, with excellent living accommodation; returns for 1930, exceed £2,000; chartered accountant's figures available; genuine proposition, capable of every investigation (visited and recommended).

(C5) BRADFORD.—Corner pharmacy, well situated near city centre; returns approximately £45 weekly; very low net rental, consequent upon regular and recurring income from sub-lets; undoubtedly scope for increase; pharmacy well stocked and fitted; exceptional opportunity, as the owner, for personal reasons is willing to dispose at a sacrifice. (Visited and recommended.)

(C6) SOUTH WALES.—Good retail and dispensing business prominently situated in small market town midway between Cardiff and Swansea; returns record steady increase for last three years; turnover for 1930-31 exceeded £1,800; net profits, £400; genuine reasons for disposing; purchase price approximately £1,250.

(C7) LONDON, S.W.—Old-established high-class retail and dispensing business centrally situated in wealthy district; present returns approximately £2,500 per annum; net profits, £600; good living accommodation. (Visited and recommended.)

(C8) BIRMINGHAM.—Established retail and dispensing business (all cash trade) with good photographic connection; average returns approximately £1,300 per annum; net profits exceed £350; good N.H.I.; very low rental; living accommodation available; at present sub-let for more than rent of entire premises; this is an exceptional opportunity for a "live" man, as the owner must sell quickly on account of family circumstances, and for a quick sale the business may be acquired at a particularly low figure; every investigation invited. (Visited, verified and recommended.)

(C9) NORTH MIDLANDS.—Unopposed retail and dispensing business in small country town; turnover approximately £45 weekly; good living accommodation; average net profits for past three years exceed £450 per annum; rent, £57 on lease. (Visited, verified and recommended.)

(C10) LONDON, EAST.—Good family business doing £35 to £40 weekly; N.H.I. dispensing; Kodak agency; living accommodation (self-contained); stock and fixtures estimated at £750; further particulars on application.

(C11) LONDON, EAST.—Retail pharmacy, old-established, showing returns of approximately £90 weekly; premises comprise double-fronted shop and warehouse, together with good living accommodation; long lease at moderate rental; purchase price to include lump sum for lease and goodwill, stock and fixtures at valuation, or by agreement.

(C12) SOUTH DEVON.—Main road double-fronted pharmacy, recently-established; present turnover, £1,225 and increasing; for sale owing to death of proprietor; stock and fittings, £800; property can be purchased or rented at £160 per annum; good living accommodation, with garden and space for garage; quick sale desired.

(C13) BERKSHIRE TOWN.—Good retail and dispensing business, with exceptional opportunities for optics; present returns approximately £35 weekly; good income from sub-letting; living accommodation available if required; rent, £71 on lease; reasonable purchase price. (Visited and recommended.)

(C14) LINCOLNSHIRE.—Retail and dispensing business showing returns of approximately £2,250 per annum; rent, £110; lease, 12 years unexpired; further particulars on application.

(C15) SOUTH WALES (NEAR CARDIFF).—Established retail pharmacy; present returns approximately £23 weekly; good living accommodation; low purchase price; owner moving on account of family and health reasons.

(C16) KINGSTON-ON-THAMES.—Recently-established; turnover approximately £20 weekly and increasing; living accommodation; payment on deferred terms considered; good reason for disposing.

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**DESIRABLE PROPERTY AND BUSINESS FOR SALE.** FOR Sale, by private bargain, the Dwelling-house and Chemist's Shop in High Street, Cromarty, belonging to the Trustees of the late Mr. Walter Johnstone, Chemist, Cromarty, together with the business of Chemist and Druggist carried on for many years by Mr. Johnstone, and latterly by his son, the late Mr. R. R. Johnstone. The business has been established for over 60 years, and is the only Chemist's Business in Cromarty. The Dwelling-house contains ten rooms. Both house and shop are in first-class repair. There is an excellent garden. For further particulars apply to Messrs. Middleton & Ross, Solicitors, Dingwall, with whom offers should be lodged not later than 15th October, 1931.

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**LONDON (N. Suburb).**—Lock-up Pharmacy, doing £20 week turnover; rent £52 inclusive at long lease; beautifully fitted and well stocked; Photo, N.H.I. and Prescribing; double-fronted; valuation terms accepted; thoroughly genuine business; must sell, domestic reasons; valuation would be approximately £400-£425. 33/6, Office of this Paper.

**LONDON, WEST (main road).**—Large double-fronted shop; takings past 3 months average £22 per week; good winter trade; lease or freehold by arrangement; apartment over shop if required; owner unable to give time owing to scholastic duties; accept £150, goodwill, fittings, fixtures, etc.; stock at valuation; if required. 30/30, Office of this Paper.

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**MANCHESTER.**—Retail Business; Post Office attached; N.H.I. and Kodak Agency; nicely fitted and stocked; living accommodation; suit recently qualified; perfectly sound proposition; established 26 years; vendor retiring; no agents. Further particulars on application to 31/12, Office of this Paper.

**NEWCASTLE-ON-TYNE (vicinity).**—For Sale, good-class Pharmacy and Druggist Business and Branch; well stocked and fitted; turnover more than £1,000 per annum, exclusive of excellent N.H.I., amounting to more than £35 per month, average; long lease at reasonable rental; well situated and practically no opposition; owner negotiating for London business, and would therefore accept a reasonable price. Write 31/13, Office of this Paper.

**NORTH BOW (near Bus Terminus).**—Established 50 years; corner shop; kitchen, scullery and garage; extremely low rent of £38 per annum, on lease; price £450, which includes stock and goodwill. Apply at once to W. H. Hamilton & Son, 1 Amhurst Road, E.8.

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**SOUTH COAST.**—Drug Store; recently established; takings £9-£10 a week, qualified man could double; good position in thickly populated district; no near opposition; small shop, with living accommodation, in busy main road; well placed for N.H.I.; £200, or offer considered. 34/26, Office of this Paper.

**SOUTHSEA.**—Old-established Dispensing, Photographic and Toilet Sundries Business, situated on main thoroughfare; average returns £50 weekly; very steady; low overhead charges; audited accounts available; good reason for disposal; lease, goodwill and fixtures £1,100, stock at valuation, or offer. 31/15, Office of this Paper.

**SUSSEX.**—Small country Business; annual turnover about £800, by unqualified man; Kodak Agency, Carters' Seed Agency; living accommodation, good garden, side entrance; rent £25; splendid opportunity for qualified man; well stocked; must sell at once on account of death of proprietor. Write 31/27, Office of this Paper.

**WEST RIDING.**—Old-established, well-fitted and stocked Pharmacy; turnover, under manager, £1,600; gross profit £560; rent and rates inclusive under £40 per year; fine opportunity for young, qualified man; scope for increase; £900 inclusive. 30/37, Office of this Paper.

**A REAL OPPORTUNITY.**—Business for disposal in town in Derbyshire; main road; corner shop, with living accommodation; unopposed; all cash trade; N.H.I. and Kodak Agency; rent £50, inclusive; death sole reason for disposal; inquiries treated strictly confidential. 31/14, Office of this Paper.

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**CASH** Retail and Dispensing Business, with Kodak Agency, in main street of North-East of Scotland town, with property, for sale, or would consider transfer to country business; turnover nearly £2,000 per annum. Applications from genuine buyers only to 192/807, Office of this Paper.

**GOOD-CLASS** Business in town of 6,000 in district borders of Monmouth and Wales; turnover £1,700 (not including Optics); gross profit £600; rent £40; rates £20 10s; 20 years' lease to run; N.H.I. about £12 monthly; good business done with surrounding titled and landed gentry and farmers; double-fronted shop, well fitted; living accommodation on premises; well laid out and charming surroundings; stock value about £600; price, including stock, fittings and goodwill, £1,100. 192/806, Office of this Paper.

**MODERN** Business; recently established; four doors from corner and in one of two of West End of London's busiest main thoroughfares; owner leaving England; £4,000 or near offer. P.C.B. 5/12, Office of this Paper.

## BUSINESSES WANTED.

**LONDON OR HOME COUNTIES.**—Sound Retail Business required; preferably Cash trade; annual returns £2,000/£5,000, but smaller turnover considered where scope for increase exists; capital available for suitable concern; all particulars treated in strict confidence. 192/805, Office of this Paper.

**WEST RIDING OF YORKSHIRE.**—Pharmacist, with capital up to £3,000, requires sound Retail Business; any likely proposition considered, but must be capable of investigation; all replies treated in strict confidence; would be prepared to consider a partnership with a view to succession later. 192/804, Office of this Paper.

**SOUND** Businesses required, all areas, particularly those with turnovers upwards of £2,000 per annum; all likely propositions receive prompt and careful attention; prospective purchasers introduced privately, and without delay. Write in confidence to Ernest J. George, Tudor House, Walsall. Telephone: 3774.

**WANTED**, small Drug Stores; unqualified. State rent, rates, lease, cash returns, etc.; Southern Counties preferred. Humphries, "The Moorings," Teignmouth.

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**WANTED** to purchase Retail Business in busy part of London, or in radius of 50 miles with minimum turnover of at least £3,000; cash on completion of sale; must bear investigation; would consider position with firm owning several shops. P.C.B. 5/19, Office of this Paper.

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**EXCEPTIONAL OPPORTUNITY.**—Live wire Agents wanted with connection with Hairdressers and Stores doing Permanent Waving. This representation offers unlimited scope, and is attended by an excellent commission basis to those interested. Please reply, giving full particulars, territory covered, etc. Replies treated strictly confidential. 30/25, Office of this Paper.

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**PRESTON, LANCS.**—Cheap for quick sale, or will let, freehold large double-fronted Shop and House; good living accommodation, bath (h. and c.); situate in populated district eminently suitable for starting a Chemist Business; no opposition; house, separate entrance, could be sub-let. Apply 53 Wellfield Road, Preston.

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## SITUATIONS OPEN.

### RETAIL (HOME).

**AYLESBURY.**—Young lady Assistant for brisk Light Retail; Counter knowledge of Photography essential; some knowledge of Dispensing preferred. State age, height, salary required and usual particulars in first letter. If possible enclose photo, which will be returned. T. M. Ashford, M.P.S., 16 Market Square, Aylesbury.

**BIRMINGHAM.**—Young, unqualified Junior Assistant (male) for suburban business; must be good Dispenser, Window-dresser, and all-round man. State age, height, experience, and salary required to 32/5, Office of this Paper.

**BRIGHTON.**—Qualified Manager, with Optical Diploma (own outfit), for small newly-fitted and stocked branch in October; working-class district; outdoor; full particulars first letter; suggest 50/50 optical work and salary; view to succession entertained. "Chemist," 40 Colbourne Road, Hove.

**C**HEL滕HAM.—Assistant, unqualified, wanted for good-class Business; permanency. Send particulars, with photo, to Holloway, The College Pharmacy.

**L**ANCASHIRE.—Smart, unqualified Assistant; good Counter-man, with knowledge of Surgical trade essential. Particulars of age, experience, salary, and when at liberty to 192/797, Office of this Paper.

**L**EEDS.—Young, unqualified male Assistant required for Central Drug Department; must have passed Part I of the Qualifying Examination and possess a sound knowledge of the Photographic trade. Applications, stating full particulars, age, salary required, and references, should be addressed to the Secretary, Leeds Industrial Co-operative Society, Ltd., 10 Albion Street, Leeds, endorsed "Drug Dept."

**L**ONDON.—Unqualified Assistant required, preferably with London experience and possessing knowledge of up-to-date Store business and Window-dressing. Particulars of previous experience, height, age, and wage required to 32/12, Office of this Paper.

**L**ONDON, W.—Qualified Assistant (male) required October 5, age about 24. Reply by letter, giving experience, references and salary required, to Inman, c/o Harrington, 15 Kensington High Street, W.8.

**L**ONDON SUBURB.—Young, qualified Assistant (male) of good address required for high-class Pharmacy; experienced Dispenser essential and trustworthy. Apply, stating salary, references, etc., to "Middlesex," 31/22, Office of this Paper.

**L**ONDON, EAST.—Qualified Assistant for working-class Business. State full particulars, age, salary required, when free. Apply, letter only, Tempest, 44 Argyle Square, King's Cross, London, W.C.1.

**M**ANCHESTER (near).—Wanted, Junior (male) for good-class Dispensing business. State age, height, and full particulars and salary required to 32/20, Office of this Paper.

**M**IDLANDS.—Qualified lady Assistant for busy N.H.I. in large town; must be accurate Dispenser and hard worker. Full details of experience, age, salary, and when free to 192/799, Office of this Paper.

**R**IVIERA.—Qualified Man as Junior, principally for Dispensing, for January, February and March, 1932; second-class passage paid out and home. Apply in first instance, with usual particulars, to J. W. Bodger & Co., Chemists, Snettisham, Norfolk.

**W**EST RIDING, YORKSHIRE.—High-class Pharmacy will shortly have a vacancy for a smart, young, practical Pharmacist, accustomed to answering doctors' inquiries in a confident professional manner. State details of training, experience and ability as Salesman. Apply 33/11, Office of this Paper.

**A**VACANCY will shortly occur for a young lady to serve a 2 years' Apprenticeship in Pharmacy; Matriculation essential. Apply Pharmacist, London Jewish Hospital, Stepney Green, E.1.

**A**N energetic, capable man required as Manager for a neglected Branch with splendid possibilities; entire control to suitable man; capital required about £400. 34/28, Office of this Paper.

**A**SSISTANT, young and well experienced in Dispensing and Counter trade; Window-dressing ability absolutely essential. Apply Flemings, Ltd., 7 London Street, Paddington, W.2.

**C**APABLE Assistant, unqualified, required for branch shop; young men seeking experience need not apply. Call personally at office. Address: Pegg & Robinson, Abford House, Wilton Road, S.W.1. (facing Victoria Station). Victoria 0721.

**J**UNIOR, just finished apprenticeship, for Dispensing and Counter. State particulars and salary required (outdoors); time for study if desired. Sherren, Crawley, Sussex.

**J**UNIOR Assistant wanted, with experience in good-class Dispensing and Photographic. Apply, C. W. Higgins, 47 Market Place, Salisbury.

**L**ADY Assistant (qualified), with good knowledge of Toilets, in large Northern City. State age, experience, salary, and when free to 192/798, Office of this Paper.

**L**ADY Assistant, unqualified, 20-25, for Counter, Stock and some N.H.I. State salary expected. London, N.W.1. Apply 32/58, Office of this Paper.

**L**ADY M.P.S. wanted for West London suburban Pharmacy. Enclose particulars of experience. State salary required, and if free immediately. 34/29, Office of this Paper.

**M**ANAGER.—Wanted immediately for new Branch in Somerset, smart qualified man with Optical qualification; good Window-dresser and business builder; young married man preferred; house provided; suit an ambitious man wanting a permanency. Full particulars of experience and salary required. Apply 33/13, Office of this Paper.

**P**ART-TIME.—Unqualified Assistant wanted, used to N.H.I.; East End; from 6 p.m. every evening; no Friday; age, wages, experience, references, etc. 32/28, Office of this Paper.

**P**ART-TIME, qualified, of good London experience; hours 2 to 7 p.m., Mondays to Fridays; quick Counter work. If by letter, full particulars of experience, etc. "Chemist," 41 Queen Victoria Street, E.C.4.

**Q**UALIFIED Locum wanted immediately for four weeks in Agricultural business. Apply, with references and full particulars, to Mr. Perkins, Chemist, Knighton, Radnorshire.

**Q**UALIFIED lady Assistant required; Dispensing and Counter; Barnsley district. Apply, with full particulars, to 33/10, Office of this Paper.

**Q**UALIFIED lady or gentleman wanted for Bradford as Cover; light duties. State lowest salary required, etc. To begin in a few weeks' time. Write 33/27, Office of this Paper.

**Q**UALIFIED Manager, married, 30-40 years, for good working-class neighbourhood; N.H.I.; keen salesman, good Window-dresser; house attached; salary and commission. State age, height, experience, when at liberty, to Herd, 519 Barking Road, East Ham, E.6.

**T**AYLORS CASH CHEMISTS have vacancies for two Managers for branches in London, E., and seaside; living accommodation attached. Application, by letter only, should state full details of experience, age, height, wage expected. Address 55 Pall Mall, London, S.W.1.

**U**NQUALIFIED Assistant required, middle of October; Mid-land market town; good-class business; short hours; good appearance and manner essential; tall; single; gentleman desiring permanency preferred. 31/31, Office of this Paper.

**W**ANTED, immediately, for Kettering branch, Junior Assistant (Part I), principally for Dispensing; must have had good Dispensing experience. Write full particulars, stating age, references, salary required, to Philadelphus Jeyes & Co., Ltd., 6 The Drapery, Northampton.

**W**ANTED, immediately, qualified Manager, either sex, for small branch. Please call or send full particulars as to age, when disengaged, salary required, etc. "Chemist," 126 Stephendale Road, Fulham, S.W.

**W**ANTED, qualified Assistant for Light Retail, used to Counter, Prescribing and Window-dressing, and not afraid of work; post open on October 5; London, E.13, district. State full particulars, age, salary and references, etc., 192/801, Office of this Paper.

#### WHOLESALE.

**B**IRMINGHAM DISTRICT.—Representative required by General Drug House; first-class references required and good experience of the ground necessary. With all usual details, in strict confidence, to 192/800, Office of this Paper.

**H**ERTS (20 miles London).—Good-class Business for Sale; average turnover £25; Prescribing, N.H.I., and Photographic (Kodak); well fitted; clean, salable stock; lock-up; moderate rent, on lease; to effect a speedy transfer a moderate price will be accepted; no agents. Write 30/19, Office of this Paper.

**L**ONDON, E.—Old-established Branch Pharmacy; takings £28 weekly; N.H.I. scripts average 12,000 per annum; rent £55; 14 years' lease; excellent opening for Dentist; price £550; certified accounts; no agents, no triflers. 32/8, Office of this Paper.

**M**ANCHESTER.—Junior gentleman Assistant, age 19 or 20, required for the beginning of October. State experience and salary required to 32/17, Office of this Paper.

**N**ORTHERN Toilet and Sundries House require smart Representative for North-Eastern area; must have sound connection and be a business getter; salary, commission and expenses. Apply, with full particulars, 31/4, Office of this Paper.

**A** LEADING firm of Manufacturing Chemists requires the services of an experienced Representative; preference given to one already holding a connection with Doctors, Chemists and Veterinary Surgeons in the Midland Counties; good opportunity for first-class man. Apply, giving full particulars of age, experience and salary required, with photograph. 31/24, Office of this Paper.

**C**HEMIST, qualified, if possible with independent address, to assist in distribution of Proprietary Medicament; references essential. Address inquiries, 29/28, Office of this Paper.

**M**ANUFACTURER of series of Pharmaceutical Packed Lines retailing at 6d. desires Representative already carrying non-competing lines with connection amongst Chemists, Drug Stores, etc., for Manchester and district; must be good Salesman, with own car for delivery; salary and commission. 192/809, Office of this Paper.

**P**ROMINENT London Drug House requires part-time Representative with first-class connections in Eastern Counties; must possess own car and be thoroughly experienced; part expenses and liberal commission. Box XY29, Gordon House, 75/9 Farringdon Street, London, E.C.4.

**R**EPRESENTATIVES, on commission, required for Hygienic Rubber Specialities of world-renowned reputation (already well introduced); must have sound connection with Retail Chemists, Sundriesmen. P.C.B. 5/16, Office of this Paper.

**T**O gentlemen having sound connection with Wholesale and Retail Chemists. The M.M.T.P. Co. are widening the scope of their activities (for their popular pack in carton) and offer a profitable proposition to commission Salesmen in centres where not already represented. Write for terms of this daily commodity, with unlimited prospects; give particulars, ground covered, lines carried. The Miss Muffet Toilet Paper Co., 1 Julian Road, West Bridgford, Nottingham.

**R**EPRESENTATIVES required to introduce advertised line to Chemists which fills a great need; sure seller; entirely British; good profits and certain repeats; liberal commission; small sample. Particulars, ground covered. C. Brook & Co., 84 Avenue Chambers, Southampton Row, W.C.1.

**S**ALES Organiser wanted by old-established Chemical Company now commencing to operate two new Perfumery and Toiletry Companies; bulk and exceptionally well-designed superior quality Packed Lines for Chemists, Hairdressers, Stores, etc.; applicants must be thoroughly acquainted with trade requirements and present-day competitive prices, be competent all-round adviser, as well as be in close touch with above buyers and able to influence sales accordingly; remuneration will be by results, and a super salesman will receive substantial appreciation with permanency and higher prospects. State fullest particulars of experience (in strict confidence), age and salary required to 191 S.S. Office of this Paper.

**T**ABLET MANUFACTURER.—Man required to take charge of department; must be thoroughly experienced with rotary tablet machine and granulating; if qualified Chemist, an advantage. State age, experience and salary. "M. J." 33 54, Office of this Paper.

**T**RAVELLERS wanted throughout the country to sell an old-established and nationally advertised line to Chemists, Hairdressers, Stores, etc., on a liberal commission basis; active connections essential. Apply to The Kraska Co., Ltd., 65 Portobello Road, W.12.

**U**NITED CHEMISTS ASSOCIATION, LTD., have vacancy at their London Dépôt (Shepherd's Bush) for capable man to organise and supervise collections and despatch of goods; an alert man with knowledge of Pharmacy and experience of Motor Vehicles would find scope for ability. Apply in first instance, with full particulars, to Managing Director, Ucal, Cheltenham.

**W**ANTED, a number of Representatives with Chemists' and Patent Medicine Vendors' connection in Leeds and district to carry an extensively advertised line; liberal commission; interviews in Leeds. 29 25, Office of this Paper.

**W**ANTED, young, qualified Chemist to take charge of the newly-founded factory. Write, stating age, experience, and salary required, to Box H.H.59, c/o Mather & Crowther, Ltd., 10-13 New Bridge Street, London, E.C.4.

## SITUATIONS WANTED.

### RETAIL (HOME).

**A.A.A.**—LADY; qualified; 24; Scot; free now; Dispensing, Windows, Counter; London or district. 34 5, Office of this Paper.

**A.A.A.**—ASSISTANT; 32; first-class Salesman, Dispenser; 17 years' excellent references; last 10 West End; any interview; London; disengaged. A. Read, 3 Stacey Street, W.C.2.

**A.A.**—SQUARE-TRAINED Chemist, with Referrer Chemistry in Ph.C., now locum, desires permanent position in Hospital or good-class Retail where prospects of advancement exist; good appearance; excellent references; Retail trained; capable of full charge; age 22; tall; free October 12. Rymer, c/o Fields, Chemist, Beverley.

**A.A.**—QUALIFIED Manager, 36. Scot, proved capable business builder, modern ideas, seeks responsible engagement; Middlesex, London suburbs; thoroughly experienced all branches; keen, ambitious worker; sole charge. 35 7, Office of this Paper.

**A.**—ADVERTISER, 38, unqualified, desires permanent situation; 20 years' all-round experience; capable of taking full charge; good Window and Counter Dresser; first-class references; free September 30. "Aspirin," c/o Mr. Hughes, Chemist, Brighton Road, Worthing.

**A**—CHEMIST, qualified, 25, requires situation; any district of London (except East End) or Southern Counties; permanency; interview; disengaged now. "Chemist," 53 Queen's Road, Wimbledon, S.W.19.

**A**—PHARMACIST, 22, tall, good appearance, excellent Window-Dresser, reliable Salesman, reliable Dispenser; with varied experience, at present on locum but at liberty from October 4, desires position as senior or Branch Manager in Essex or South-Eastern Counties. Neal, "Lyndhurst," Walsall Road, Lichfield.

**A**—QUALIFIED Chemist, 24, requires part-time or full-time A post, mornings and afternoons till 5 p.m.; good Counterman and Dispenser; excellent references; moderate salary. P.C.B. 5 21, Office of this Paper.

**A**—ACCOUNTANCY Books written up. Balance Sheets, Income Tax Adjustment; moderate charges. "Accountant," 99 Helix Road, Brixton, S.W.2.

**A**—ACTIVE; unqualified; middle-aged; experienced; take any position; successful Manager; Locum, permanent. Fletcher, 91 Duncombe Road, Holloway, N.19.

**A**—ADVERTISER, keen, capable, experienced, qualified Pharmacy and Optics, seeks management; permanency; F.S.M.C., F.B.O.A.; registered J.C.Q.O.; own equipment; could work up Optical connection; salary and commission. "Statim," 33 5, Office of this Paper.

**A**—ADVERTISER, 40, unqualified, experienced, 5 ft. 9 in.; abstainer; Locum; permanency preferred; disengaged after 19th. Alexander, 189 Southampton Street, S.E.5.

**A**—N opportunity to obtain services of a capable, energetic M.P.S., 25, will shortly occur. Particulars on request. 33 25, Office of this Paper.

**A**—Assistant or Locum; disengaged on 19th inst.; experienced; abstainer; excellent references; moderate salary; accustomed to management. "Chemist," 142 Hill Lane, Southampton.

**A**—SSISTANT (unqualified) desires change; London district preferred; present berth 3 years; age 23; tall; good all-round experience. Dispensing, Counter and Photography; good Window-dresser; well recommended; excellent references. S. Hallam, c/o E. D. John, 118 Cowley Road, Uxbridge, Middlesex.

**A**—SSISTANT, thoroughly dependable and experienced in all branches of the business; a right-hand man who inspires confidence and is highly recommended; last two references cover 16 years' service; interview any time. March, 69 Summerhouse Avenue, Heston, Hounslow.

**A**—SSISTANT; unqualified; 28; free October 4; Counter, Dispensing and Window-dressing; honest and trustworthy; tall; and of good appearance; 13 years' experience. Tuck, 71 Wellesley Road, West Croydon, Surrey.

**A**—SSISTANT (Junior), Dispensing, Counter, Photographics, seeks permanency in large town; available immediately. 33 12, Office of this Paper.

**A**—SSISTANT; unqualified; all-round experience; disengaged; S.W. England preferred. T. C. Davies, c/o Farm Cottage, Summerhill Park, Sion Hill, Bath.

**A**—SSISTANT; unqualified; 31; tall; married; 15 years' good experience in Dispensing, Counter and Window-dressing; excellent references. G. A. Fricker, 6 High Street, Epsom.

**A**—SSISTANT; unqualified; 22; tall; excellent references and experience, all branches; disengaged September 21. Philip, 20 St. Hilda's Road, Griffithstown.

**B**RIGHTON OR NEAR.—Unqualified Assistant, 27, seeks position; sound pharmacy training, including seaside and West-End experience, with high-class Dispensing; apprenticeship served in Hove; free one month. 34 12, Office of this Paper.

**C**APABLE Junior Assistant, 20, requires situation; Dispensing (N.H.I.), Counter, etc.; keen, efficient Salesman. "D. B." 44 St. George's Road, Forest Gate.

**C**HEMIST-OPTICIAN, M.P.S., F.S.M.C., J.C.Q.O., 29, married, at present managing West-End Family business, desires sole charge good-class business; London or suburbs; would give fidelity bond; experienced and energetic; free in one month. "Chemist," 41 Fairholme Road, W.14.

**C**HEMIST, 29, 12½ years' experience, Provincial and West-End, requires situation as Manager; excellent references; free one week. P.C.B. 5 22, Office of this Paper.

**C**OMPETENT, experienced Assistant; unqualified; Public School; town or country; 26; height 6 ft.; active and energetic; recommended as honest, sober, reliable; disengaged. L. Flatman, Tregonwell Road, Minehead, Somerset.

**D**ISPENSER, lady (Hall Certificate), Ambulance and Nursing Certificates, requires position, Hospital, Institution, Surgery or shop; 10 years' full experience. 29 25, Office of this Paper.

**D**ISPENSER (unqualified) desires post with Doctor or Hospital; motor driving and repairs; Secretarial work. Miss Watney, Canwick Vicarage, Lincoln.

**E**XPERIENCED; unqualified, but competent; tall; Scot; many years' good all-round experience. Dispensing, Counter, Photo; quick, clean, accurate; highest references; free middle October. Johnstone, 11 Rosebery Avenue, Gloucester.

**I**MEDIATE.—Unqualified as Assistant or Manager; 36; tall; married; over 20 years' experience; 13 years last position (manager). Manchester suburb; accustomed turnover £5,000 per year; very heavy N.H.I.; all-round knowledge and experience; free now. 32 14, Office of this Paper.

**J**UNIOR, 20 (Part I, April), requires situation; 4 years' experience; efficient at Counter and Dispensing; knowledge of Photography; good references; London or suburb preferable. "I. A." 4 Beaumont Street, Mile End Road, E.1.

**L**ADY requires temporary or permanent position; good Dispensing and general experience. "D." 14 Tennyson Avenue, Twickenham.

**L**ADY M.P.S. requires position; Locum, whole or part time; excellent experience. "Pharmacist," 252 Elgin Avenue, W.9.

**L**ADY (Hall); free September 20; experienced Hospital, Retail, Doctor's Dispensing and Book-keeping; Manchester district preferred. Apply 32 24, Office of this Paper.

**L**ADY Dispenser (Hall) requires post in London; temporary or permanency; 6 years' experience. Dispensing and Retail; excellent references; disengaged. 33 22, Office of this Paper.

**L**ADY, passed Part I, desires position; permanency or Locum; good Dispensing and Counter experience. Spence, 13 Longfield Road, Tooting. Phone: Streatham 5760.

**L**ADY, 22 (Part I), desires post with Chemist or Doctor; experienced high-class Pharmacy and Doctors' Surgery. 33 29, Office of this Paper.

**L**ADY Assistant, Hall, 8 years' excellent all-round experience in Dispensing and N.H.I. and Counter, in London and districts, desires post. Chemist or Doctor; pleasant personality. 30 10, Office of this Paper.

**L**ADY; qualified (25); good all-round experience; London, or near N.W. district. "H. D." 1 Hopetoun Avenue, Brondesbury Park, N.W.6.

**L**OCUM TENENS.—Two or three weeks' work wanted by qualified Manager or Assistant from September 21. 31 40, Office of this Paper.

**L**OCUM; qualified; 33; married; free September 20, to October 5. Back, c/o Huggins, Chemist, Rectory Road, N.16.

**L**OCUM; qualified; 33; good experience as Assistant and Manager. "Chemist," 50 Grove Lane, Camberwell, S.E.5. Phone: Rodney 2719.

**M**ALE Dispenser-Book-keeper, 44, seeks post with Doctor; quick and accurate worker; excellent references; moderate salary in return for reasonable hours and no Sunday duty; free to any district. 30 8, Office of this Paper.

**M**ALE Dispenser-Book-keeper, 44, desires post with Doctor; Bradford or near preferred; highest references; quick and accurate worker; will accept very moderate salary in return for reasonable hours; no Sunday duty. 30 80, Office of this Paper.

**M**ANCHESTER DISTRICT.—Assistant desires permanency in good-class Dispensing business middle October; height 5 ft. 11 in.; age 22 years (referred Part II); good Window-dresser and experienced in all branches; Optics, 21 170, Office of this Paper.

**M**ESSRS. TIMOTHY WHITES (1928), LTD., have a vacancy for a Buying Clerk for their Proprietary Preparations and Photographic Department; applicants must have had good previous experience and possess ability and business acumen. Apply, giving full particulars, salary required, age, etc., to Assistant Secretary, Timothy Whites (1928), Ltd., Chandos Street, Portsmouth.

**M**INOR Student at the Square open to evening and Saturday employment; very good experience in first-class business; Dispensing, Counter, Window-dressing and Photography. "Mac," c/o J. H. Taylor & Son, Chemists, St. Annes-on-Sea.

**M.P.S.**, 22, desires permanency; all-round experience. Dispensing, Counter, Windows; salary £4 10s. Multineaux, 2 Daggers Hall Lane, Blackpool.

**M.P.S.**, age 25 years, requires position, Manager or Assistant; good all-round experience. J. H. Cattman, 98 Crofton Road, Plaistow, E.13.

**M.P.S.**, F.S.M.C., F.I.O. (supplement also), age 28, 12 years' experience, requires position as Manager or Assistant ("not superintendent"); Optics chief consideration. "Aplanet," 25 Highfield Road, Dartford, Kent.

**M.P.S.**, 25, single, abstainer, desires post in Hospital or Institution; anywhere; moderate salary; free immediately. Kirkman, 468 Crompton Way, Bolton.

**M.P.S.**, (lady) desires permanency or Locum; Midlands; excellent references; smart appearance; all-round experience. 35 Milton Road, West Bridgford.

**M.P.S.**, desires permanency or Locum; 5 years' all-round experience; keen and energetic; capable Window-dresser; excellent references; accept moderate salary to commence. "Chemist," 16 Lancaster Place, Blackburn.

**M.P.S.**, 26, desires permanency as Manager or Assistant; extensive experience; excellent references; free October 12. L. Baker, 103 Listra Park, N.16.

**M**R. S. FURNIVAL, Sheffield, recommends J. Carbunc as an efficient Assistant; 4 years' all-round experience; unqualified. Carbunc, 65a Broomball Street, Sheffield.

**P**ART or whole time; 12 years' London experience; good references; S.E. district. Crowther, 18 Elm Road, Beckenham.

**P**ART time, evenings and Saturdays; near Chelsea or home; Qualifying Course; 25; good worker. "Eager," 179 Chambreigne Road, N.W.10.

**P**ART-TIME situation required; East London district; Counter or Dispensing; disengaged. Spooner, 480 Green Lane, Seven Kings, Essex.

**P**HARMACIST, qualified, age 24, desires situation; free early October; good references. Apply John Gerton, c/o Swindale, Chemist, Malvern.

**Q**UALIFIED Chemist and Optician, F.S.M.C., 26, tall, desires suitable post as Manager or Assistant; excellent experience and references. 29 17, Office of this Paper.

**Q**UALIFIED desires engagement as Manager or Senior; good Dispenser and Salesman. J. Greer, 28 Hand Lane, St. Helens.

**Q**UALIFIED lady; experienced Retail and Hospital; excellent references; disengaged after September 26; Locums or permanency in South or South-Eastern England, not essential; at present locum Midlands. 31 50, Office of this Paper.

**Q**UALIFIED Chemist and Optician, F.B.O.A., F.S.M.C., seeks position in either or both capacities; 20 years' experience; available immediately. P.C.B. 5 25, Office of this Paper.

**Q**UALIFIED, man, 24, tall, good appearance, desires position in Dispensing, Photo, Windows and Counter. Ranson, 19 Noster Terrace, Beeston, Leeds.

**Q**UALIFIED, young, seeks situation Locum or permanency; any district; Counter, Dispensing, N.H.I. and Photographic; good references. Jefferson, 52de Hockton, Laughton, Sheffield.

**Q**UALIFIED Manager desires permanency; 11 years' sound experience Company and Private Pharmacy. "Progressive," 17 Northfield Road, New Merton, Manchester.

**Q**UALIFIED, 22, tall, good appearance, extensive experience, Assistant or Manager; photo, references on request; free; anywhere. Driver, 2 Moorland Road, Burnley.

**Q**UALIFIED; 34; Locum or permanency; 10 years' experience Management; free October 7. "Chemist," 236 Stafford Road, Wallington, Surrey.

**Q**UALIFIED Manager, Scot, 35, desires a change; thoroughly experienced all branches; keen, ambitious worker; present management 10 years; Lancashire or Yorkshire. 32 35, Office of this Paper.

**Q**UALIFIED, 21, Scot, desires Locum or permanency anywhere; good Dispensing and Counter training; excellent references. 32 27, Office of this Paper.

**Q**UALIFIED, 25, tall, 5 years' experience, highest references, requires situation anywhere; disengaged now. John, "Brynn-Awel," Hirwaun, Glam.

**Q**UALIFIED Manager; 40; tall; smart appearance; Dispensing, Counter, Display; undenied references; disengaged. "Chemist," 18 Windsor Road, Southport.

**Q**UALIFIED Manager, 35, 11 years' managerial experience, business builder, keen, ambitious, seeks responsible position; permanency; well recommended; interview. "Chemist," 4 Fords Grove, Winchmore Hill, N.21.

**Q**UALIFIED young lady Assistant Dispenser (Hall); excellent references; good all-round experience; Brighton or near a Prestowville Road, Diele, Brighton.

**Q**UALIFIED, 32, married, desires change; progressive permanency, with living accommodation preferred; 10 years' qualified experience, seven as manager; 41 in present berth; free October 24. 33 40, Office of this Paper.

**Q**UALIFIED; 36; Scot; experienced; energetic; reliable; 10 years' managing experience, London; excellent references. Manager, with view to succession if possible; capital available; London or district. 33 17, Office of this Paper.

**Q**UALIFIED Chemist; 25; tall; six years' experience; Dispensing, Counter, Photo; West Yorkshire preferred, but not essential; free. 34 18, Office of this Paper.

**Q**UALIFIED; 36; married; thoroughly experienced all branches; capable managing substantial business; active, healthy; real business builder; good Prescriber and Window-dresser; permanency desired. "D," 33 Chapelfield Road, Norwich.

**R**ELIABLE; unqualified; 27; used to large Private and Patel Dispensing; City, West-End, East-End, country experience; Photographic, D. & P. Windows. Salesmanship; excellent references. Hawkins, 55 Abbotts Park Road, Leyton.

**R**ELIEF OR LOCUM—Reliable Managing Assistant available for Tuesdays and Thursdays (Mondays by arrangement); day or half-day booked; 30 years' experience; retaining present berth. J. E. Franklin, 67 Finsborough Road, S.W.10.

**R**ELIEF or part time; qualified; elderly; just finished season's locum; Counter, Dispensing and Photographic; excellent references. "H," 18 Westmoreland Road, Bayswater, W.2.

**S**ENIOR Assistant; desires post where capability and hard work count; excellent training in all branches of pharmacy; good business man; honest and trustworthy; free at once if necessary; excellent references. 34 8, Office of this Paper.

**S**HEFFIELD DISTRICT.—Qualified; young; married; tall; Manager or Assistant; accustomed busy Counter and Dispensing; excellent all-round experience. 32 55, Office of this Paper.

**U**NQUALIFIED Assistant; 6 years' experience, all branches; completed Qualifying Course; tall; energetic; commence October. Gower, Plymouth Road, Penarth.

**U**NQUALIFIED; 24; first-class Dispensing experience; City, West-End and Country; good references. C. Hunter, 7 Redburn Street, S.W.5.

**U**NQUALIFIED, capable, all-round Assistant; middle 40's; life experience; quick Counter trade. N.H.I. and good Window-dresser; last post 11 years in charge; excellent references. Stevens, 61 Park Road, Dukinfield, Cheshire.

**U**NQUALIFIED Assistant, 20, desires situation; Edinburgh or Glasgow preferred; general experience; good references. 32 52, Office of this Paper.

**U**NQUALIFIED; 20 years' experience, Dispensing, Counter, Photography, etc.; disengaged September 26; Locum accepted. Harris, 40 N. Leonard Road, Weymouth.

**U**NQUALIFIED Assistant; desires post; good experience, Counter, Dispensing; tall; good appearance. Please write K. Billeter, 4 Pennine Drive, N.W.2.

**Y**OUNG, qualified, desires permanency; sound general experience; moderate salary; Midlands preferred. 32 57, Office of this Paper.

## WHOLESALE.

**A.A.**—KEEN Representative, 35, good connection Wes; and South England, requires progressive position with house of repute; Drugs, Toilets or Proprietaries; own car. 32 51, Office of this Paper.

**A** LONDON Representative, connection Chemists, Hairdressers, etc., open for engagement with good house; Drugs, Toilets or other lines. P.C.B. 5 18, Office of this Paper.

**A** KEEN, highly efficient Representative, expert propagandist, seeks re-engagement; well known and sound connection North; thoroughly experienced all branches; highest recommendations. Could interview any day at Leeds Exhibition. 32 25, Office of this Paper.

**A** QUALIFIED Chemist, age 35, general experience, desires situation London Wholesale House, any capacity; good references; small salary. 33/2, Office of this Paper.

**A** REPRESENTATIVE, with strong extensive connection a whole of London Chemists and Hairdressers, has excellent proposition for a good Drug and Sundries House; proof of salesmanship and own car. Particulars, 31/8, Office of this Paper.

**A** REPRESENTATIVE (disengaged October); Chemists' connection London, S.W. and S.E., also South-Eastern and Western Counties to good House; Propaganda on neglected ground a speciality; pleasing personality and appearance; own car; salary and expenses basis. "Decus," 32/26, Office of this Paper.

**A** DDITIONAL quick-selling line wanted by Representative; 25 years' connection; six Southern Coast Counties. 31/17, Office of this Paper.

**A** DVERTISER, has just disposed of his business (Retail), is desirous of representing Wholesale Drug House; he is well known and popular in East London and Southern Ireland; 25 years in the Drug trade; smart salesman; energetic; good appearance and address. Replies "Good Business," 32/16, Office of this Paper.

**A** SSISTANT, unqualified, desires situation, Manufacturing, Laboratory. Salesman; 5 years' West-End Retail experience; age 22. Gerrard, 42 Park Avenue, Wood Green, N.22.

**C**HEMIST; qualified; Wholesale or Retail; Locums or permanency; first-class experience. Preston, 3 Oldcastle Avenue, Withington, Manchester.

**P.H.C.**, 10 years' varied Pharmaceutical experience, plus proven administrative ability, desires post with Drug Growers or Importers; excellent credentials. 29/58, Office of this Paper.

**P.H.C.**, firm of Manufacturing Chemists; good references. 32/40, Office of this Paper.

**P**HARMACIST, 33, tall, keen, forceful, 13 years' Retail experience (including 10 years as proprietor), own car, seeks position Representation; wide knowledge Southern Counties; Bankers' and Wholesale references; available immediately. 32/9, Office of this Paper.

**Q**UALIFIED Pharmacist, 25, knowledge Therapeutics and Anatomy, excellent experience medical propaganda, desires represent first-class house; smart appearance and requisite personality; London or South Coast; can drive car. 34/19, Office of this Paper.

**R**ELIABLE Assistant seeks engagement; 20 years' experience Manufacturing, Counters and Dispatch; first-class references; a real worker; disengaged. 32/30, Office of this Paper.

**S**MART Retail Salesman desires berth; Representative or Showrooms, Toilet, Pharmaceuticals, Sundries; 28; tall; good appearance. 9 Manor Road, Wallington, Surrey.

**Y**OUNG, energetic, 10 years' experience Retail, desires position with Wholesale Firm, either as Representative or in Sales Department, or would accept Agency; modest salary to commence; would provide car if necessary; three references; only genuine offers with scope for improvement considered. Reply to 31/5, Office of this Paper.

**Y**OUNG, qualified, desires opening with Wholesale House; sound Retail experience; moderate salary. 32/370, Office of this Paper.

## MISCELLANEOUS.

**A** PHARMACY, fitted with reconditioned 5-ft. Showcase front Counter, 9-ft. Drugfitting with mahogany-fronted Drawers, 4-ft. mahogany Wall Showcase, 4-ft. 6-in. mahogany Dispensing Screen, drawers at back, mahogany Perfume Case and Desk, £60 the Set. Many other Sets in stock to suit any shop. Call and make your selection. Upright and Flat Counter Cases, Silent Salesmen, All-glass Counters, Display Stands, Swan-neck and Pear-shape Carboys, Recessed Label Shop Rounds, Electric Signs, Check Tills, etc., cheap. RUDDUCK & CO., 219 Old Street, London, E.C.1.

**C**HEMISTS' FITTINGS.—We hold an immense stock of Drug Fittings, Dispensing Screens, Glass Fronted Counters, Perfumery Cases, Nests of Drawers, Wall Cases, Silent Salesmen, Upright and Flat Counter Cases, Plate-glass Counters, Cash Tills, Display Stands and Glass Shelves, etc., ready for immediate delivery at competitive prices. Write or call for List. F. MAUND & E. BERG (SHOWCASES), LTD., 175/9 and 336 Old Street, London, E.C.1.

**C**HEMISTS' FITTINGS.—Complete set in mahogany. Complete Drugfittings, 14 ft. long and 10 ft. long, 36 drawers; Wall-case, 8 ft. long; Serving Counter, case front, 10 ft. long; Dispensing Screen, mirror centre, 7 ft. long; two 4 ft. Nests Counter Drawers; cheap to clear; also set in polished oak. Sketches by return. GEORGE COOK. The Working Shopper (over 40 years' experience), 27 Macclesfield Street, City Road, E.C.1.

**F**OR quick sale, two heavy Werner Jacketed Mixers; excellent condition. Write 191/784, Office of this Paper.

**F**OR Sale, cylindrical and also "U" shaped Drying Machine with Agitators. Write 191/785, Office of this Paper.

**F**OR Sale, Vertical Stone Mill, also Grinder with Screens (Perplex type). Write 191/786, Office of this Paper.

**CLEAR OUT**—your Old or Damaged Stock of Photo Goods

Why keep them any longer? Turn them into CASH.

**I GIVE BEST PRICES** for Old Films (damaged, fogged or expired dates); Packet Papers, Cards (any sizes). Old Photo Goods or Cameras, Bromide Papers, Plates (all sizes, all makes). Send any goods in the photo line. I buy all, good or bad. Cash per return. A good price for all Cameras. Send them along. S. E. HACKETT, 23 July Road, Liverpool

**F**OR immediate disposal, Alsing type Ball Mill, Silex. Write 191/787, Office of this Paper.

**F**OR Sale, Single and Double Tooth Grinding Mills, also Power Friction Hoists. Write 191/788, Office of this Paper.

**F**OR Sale, Gardner's latest pattern Fine Powder Dresser with Perfume Sprayer and Mixer for making finest Beauty Powders, Toilet Powders, etc. Write 191/789, Office of this Paper.

**F**OR Sale, Jacketed Copper Boiling Pans, also Cast Iron Jacketed Pan with stirrers. Write 191/790, Office of this Paper.

**F**OR Sale, Fine Powder Sifting Machine with removable barrel or sieves. Write 191/791, Office of this Paper.

**F**OR Sale, Gas Heated Drying Machine with revolving Agitators with brass internal fittings. Write 191/792, Office of this Paper.

**F**OR Sale, No. 1½ and 2½ size Disintegrator. Write 191/793, Office of this Paper.

**F**OR quick sale, Johnson Filter Press with 12 plates, 15 in. diameter; also 6 x 12 triple Granite Roller Mill. Write 191/794, Office of this Paper.

**F**OR Sale, Gardner "Rapid" Sifting and Mixing Machine with latest improvements. Write 191/795, Office of this Paper.

**S**HOP-SOILED SECOND-HAND SHOP FITTINGS.—A quantity in stock at bargain prices. Send your requirements to PHILIP JOSEPHS & SONS, LTD., 90/2, St. John Street, Clerkenwell, E.C.1. "Pharmacy Fitters for Over a Century."

**W**ANTED, Machine for Mixing and Sifting Dry Powders; capacity about 60 to 300 lbs. at a time. Lowest price and particulars to 191/796, Office of this Paper.

**£?**—COMPLETE CHEMIST FITTINGS at any price you wish to pay. We have erected in our showroom a Complete Chemist Shop with Metal Shop Front, Window Backs, Correct Window Lighting Signs and Modern Interior Fittings. 40-page Catalogue on request. D. MATTHEWS & SON, "The Liverpool Shop Fitters," 14 and 16 Manchester Street, Liverpool. Est. 1848.

## EXCHANGE COLUMN.

### FOR DISPOSAL.

"MINOR" BOOKS cheap, Botany, Chemistry, etc. "Chemist," Legrave, Luton.

**WHAT OFFERS?**—29 bottles unopened Fine Musk Grain (Bush), "D," 192/810, Office of this Paper.

**SAFETY RAZOR BLADES** for Sale, five boxes 120s and 13 cards 60s Wardonia, also 16 boxes 3d. Souplex 120s. Will accept best offer. Jefferson, Aston Place, Dublin.

"AUTOWAY" CASH TILL; set of three upright Counter Cases; 8 ft. and 10 ft. bent glass Counter Cases, etc. "Abbotsford," 112 Bournington Road, Leith.

**COMPLETE OPTICAL TEST CASE.**—Seventy pairs plus and minus spheres, 42 pairs plus and minus cylinders, 15 prisms, trial frames, double prism, Maddox Rod, and usual accessories; original cost £30; accept £12. Self-luminous Ophthalmoscope, Practice Eye, Lens, Measure, Protractor, Orthops Pointer, Face Measure, Axiscopic, £2 the lot. Complete Student's Optical Bench, fitted electric, 30s. Microscope, Busch lens, ½ in. and ¼ in. objective, £2. C. Holcroft, 68 Lower Broughton Road, Manchester.

### WANTED.

**DISPENSING SCREEN**, also Counter, glass front mahogany. Evans, The Pharmacy, Penrhinebeir.

**REQUIRED**, Optical Trial Case (second-hand). State contents, price. Barton, 23 Aldin Avenue, Slough.

**WANTED TO PURCHASE** 1 x 2 dozen 30-grain Suppository Mould; must be in good condition. Price and particulars to 191/782, Office of this Paper.

**GOWER**, Chemists' Bookseller, 41 Voltaire Road, Clapham, wants Pharmaceutical Books, including B.P., Pharmaceutical Formulas, B.P.C., P.J.F., Optical Books, Materia Medica Collections.

**SET** SECOND-HAND SCALES, accurate to 5 gr.; also Powder Sifting Machine, good condition, 4 to 7 lb. P.C.B. 5/20, Office of this Paper.

**REQUIRED**, several Window Display Carboys, stoppered; would collect in London district. Curtis, 6 Ludgate Circus Buildings, E.C.4.



